Cover: Na Paniolo, Hawaiian cowboys, herd cattle on the vast Parker Ranch. Located in the Waimea plateau area of the Island of Hawaii, it is the second largest, individually owned ranch in the United States.

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STATISTICS OF HAWAIIAN AGRICULTURE
1983

Prepared by
HAWAII AGRICULTURAL REPORTING SERVICE
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EXECUTIVE CHAMBERS

HONOLULU

GEORGE R. ARIYOSHI
GOVERNOR

MESSAGE FROM GOVERNOR GEORGE R. ARIYOSHI

Agriculture continues to play an important role in Hawaii's economy. The long, proud tradition it has achieved of providing food and jobs is enhanced by the contribution it makes to the quality of life of our citizens and the way it complements another of our important industries, tourism. The beauty of our open spaces, panoramic vistas, and rural settings is treasured by Kamaaina and enchants our visitors. Agriculture helps to preserve this beauty while at the same time making an important economic contribution.

This administration has always placed strong emphasis on the diversification and expansion of our agricultural base while working towards increased self-sufficiency in food production and development of our export crops.

George R. Ariyoshi

GEORGE R. ARIYOSHI
GOVERNOR

JACK K. SUWA
CHAIRMAN, BOARD OF AGRICULTURE

SUZANNE D. PETERSON
DEPUTY TO THE CHAIRMAN

State of Hawaii
DEPARTMENT OF AGRICULTURE
1428 So. King Street
Honolulu, Hawaii 96814

Mailing Address:
P. O. Box 22159
Honolulu, Hawaii 96822

Agriculture made a strong recovery in 1983 with the total value third highest on record behind only 1974 and 1980, years of high sugar prices. It is very gratifying to see gains registered by so many of our agricultural commodities. New highs were achieved for several of these commodities as we moved toward greater self-sufficiency among some crops and at the same time expanded exports. Output and value of sugar and pineapple, the two mainstays of our agricultural base, improved in 1983 for the second consecutive year with pineapple achieving a record high farm value. The value of diversified agriculture climbed to a record level, almost breaking the $200 million mark.

This year in "Statistics of Hawaiian Agriculture" we are highlighting the livestock, dairy, and poultry industries. Cattle ranching is an important Hawaiian industry dating back to the mid-nineteenth century. For generations cattlemen have proven their resourcefulness in overcoming many obstacles, and, by constantly striving to improve their stock, have provided top quality meat for Hawaii's tables. We are also proud of our poultry and dairy industries which have provided us with ample supplies of wholesome milk and farm fresh eggs. Our pork industry likewise has been a significant contributor. Collectively the livestock, dairy, and poultry industries are an important, stable economic base in the agricultural sector. The value of beef and milk production has consistently ranked among the top spots in diversified agriculture.

"Statistics of Hawaiian Agriculture" is our annual summary publication which is one of an extensive schedule of over 180 statistical reports issued by the Hawaii Agricultural Reporting Service. This statistical program is a joint effort of the Hawaii Department of Agriculture and the Statistical Reporting Service, U. S. Department of Agriculture. Through this cooperative arrangement, we are able to provide a comprehensive program of quality statistics without duplication of resources.

Jack K. Suwa

Jack K. Suwa
Chairman, Board of Agriculture

"Support Hawaiian Agricultural Products"

STATISTICS OF HAWAIIAN AGRICULTURE

Most of the information in this publication is obtained by surveys of farmers and ranchers. Supplemental information is provided by grower organizations and agribusiness firms. Several other State and Federal agencies also contribute toward development of these statistics. We wish to express our appreciation to all the persons and organizations who have helped.

Much of the information was obtained by personal interviews. Statisticians responsible for this work were: James Yamaki and Llewelyn Suzuki, Hawaii; Renan Mahikoa, Maui and Molokai; and Wendell Au and June Okamura, Oahu and Kauai. Processing the data and preparing the tables were done by the program support group of Teresita Aspili, Betsy Komatsu, Georgia Matsukawa, Lloyd Miyashiro, Natalie Nagaji, Lei Nogami, Verma Peterson, and Amy Quinlan under the supervision of Joan Nakamatsu. Jan Yokogawa had responsibilities for computer processing and programming. Joyce Jay served as editor with commodity supervision provided by Ronald Nakamura for crop estimates; Nils Morita for livestock estimates; and John Takara for statistical research and objective measurement projects. Printing services and forms preparation were done by Rowena Tanaka. Donald Martin is responsible for directing technical program operations of the office. Carol Igawa provided administrative assistance.

A special note of thanks and appreciation is expressed to Lloyd Garrett, former Statistician in Charge, who made significant improvements in this publication while assigned to the Hawaii Agricultural Reporting Service. He assumed the responsibilities as Statistician in Charge of the Reporting Service in the State of Washington in February 1984.

An extensive schedule of current reports and forecasts are available upon request to the Hawaii Agricultural Reporting Service, P. O. Box 22159, Honolulu, Hawaii 96822.

Aubrey R. Davis
Statistician in Charge

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HAWAII AGRICULTURE 1983

The 1983 agricultural scene in Hawaii was highlighted by increased revenues for our two mainstays, sugar and pineapple and a record high year for diversified agriculture. Pegged at $565.9 million, the farm value of the State's agriculture was 11 percent greater than 1982. It was the third best year on record, exceeded only by 1974, and 1980, years of high sugar prices. All major segments of the agricultural sector contributed to the increase. Agriculture's contribution to the State's economy including the processed values of sugar and canned pineapple, and government payments was $837 million, 13 percent better than the previous year. Increased production and higher prices boosted revenues for both sugar and pineapple.

Diversified agriculture, after a slight dip in 1982, rebounded to it's best year ever, just missing the $200 million mark. At $199.0 million it was 9 percent above the 1982 total. Flowers and nursery products, beef production, vegetables, and coffee all registered record high farm revenues. Milk sales recovered to more normal levels. In-shell macadamia nut production was slightly below 1982 and combined with a decline in the farm price for the second year in a row, resulted in lower farm receipts.

SUMMARY: Acreage in crop and total farm acreage, by islands, 1979-83

Year	Sugarcane	Pineapples [1]	Vegetables and melons [2]	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Miscellaneous crops [3]	Total farm acreage [4]
	1,000 acres							
	STATE [5]							
1979..	218.8	44.0	4.3	5.3	2.1	11.4	4.9	1,980
1980..	217.7	43.0	3.9	5.2	1.9	13.3	6.4	1,970
1981..	216.1	41.0	4.2	5.4	1.8	13.8	8.0	1,965
1982..	204.8	36.0	4.1	5.6	2.0	15.0	11.3	1,960
1983..	194.3	35.0	5.1	6.1	2.0	15.8	12.2	1,960
	HAWAII							
1979..	91.7		1.6	3.6	2.1	11.1	1.1	1,150
1980..	91.2		1.5	3.6	1.9	12.1	1.0	1,150
1981..	90.5		1.5	3.7	1.8	12.6	1.1	1,150
1982..	83.2		1.5	3.9	2.0	13.5	1.0	1,145
1983..	75.6		1.9	4.4	2.0	14.5	1.1	1,145
	KAUAI/NIIHAU							
1979..	45.8		.1	.6		[6]	.7	280
1980..	46.0	*	.1	.7		[6]	.6	275
1981..	45.8	*	.1	.8		[6]	.6	275
1982..	44.9	*	.1	.7		[6]	.7	275
1983..	44.1	*	.1	.7		[6]	.7	275
	MAUI/MOLOKAI/LANAI							
1979..	47.7	32.0	1.2	.3		[6]	1.8	425
1980..	47.4	31.5	1.2	.1		[6]	3.4	420
1981..	47.1	30.0	1.4	.1		[6]	4.9	420
1982..	47.5	24.5	1.4	.2		[6]	8.9	420
1983..	47.4	24.4	1.8	.2		[6]	8.9	420
	OAHU							
1979..	33.6	12.0	1.4	.8		[6]	1.3	125
1980..	33.1	11.5	1.1	.8		[6]	1.4	125
1981..	32.7	11.0	1.2	.8		[6]	1.4	125
1982..	29.2	11.5	1.1	.8		[6]	.7	125
1983..	27.2	10.6	1.3	.8		[6]	1.5	125

* = Less than 500 acres.
[1] Land used for pineapple.
[2] Harvested acreage.
[3] Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), and flowers, foliage and nursery products.
[4] Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.
[5] Sum of island estimates may not add to State total due to rounding.
[6] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of crop farms, by islands, 1979-83

Year	Sugar	Pineapples	Vegetables and melons	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
				STATE				
1979...	400	15	535	683	700	465	121	580
1980...	380	18	585	692	650	475	122	640
1981...	360	18	583	657	625	490	123	680
1982...	285	18	620	700	620	520	127	650
1983...	**230**	**18**	**683**	**724**	**610**	**600**	**155**	**680**
				HAWAII				
1979...	389		198	407	700	459	41	290
1980...	369		213	410	650	469	41	300
1981...	349		216	392	625	485	40	330
1982...	274		241	424	620	515	45	310
1983...	**219**		**300**	**445**	**610**	**595**	**67**	**320**
				KAUAI				
1979...	5		47	74		3	49	25
1980...	5	3	51	78		3	50	25
1981...	5	3	48	77		2	50	25
1982...	5	3	52	82		2	49	25
1983...	**5**	**3**	**62**	**80**		**2**	**54**	**25**
				MAUI/MOLOKAI/LANAI				
1979...	3	13	73	44		2	29	95
1980...	3	13	75	38		2	29	95
1981...	3	13	75	33		2	30	85
1982...	3	13	78	37		2	29	80
1983...	**3**	**13**	**80**	**50**		**2**	**25**	**85**
				OAHU				
1979...	3	2	217	158		1	2	170
1980...	3	2	246	166		1	2	220
1981...	3	2	244	155		1	3	240
1982...	3	2	249	157		1	4	235
1983...	**3**	**2**	**241**	**149**		**1**	**9**	**250**

SUMMARY: Number of livestock operations and total number of farms, by islands, 1979-83 [1]

Year	Cattle [2]	Hogs	Milk	Eggs	Broilers	Honey	Total (non-duplicated) [3]
				STATE			
1979...	800	650	70	60	10	25	4,300
1980...	800	650	70	60	10	27	4,300
1981...	750	650	70	55	10	28	4,400
1982...	750	650	70	55	10	30	4,400
1983...	**750**	**650**	**70**	**55**	**9**	**27**	**4,400**
				HAWAII			
1979...	355	80	24	23		3	2,500
1980...	360	80	24	23		3	2,500
1981...	350	70	24	23		3	2,650
1982...	340	75	24	24		6	2,650
1983...	**335**	**85**	**24**	**26**		**6**	**2,650**
				KAUAI/NIIHAU			
1979...	155	110	5	6	2	12	300
1980...	150	110	5	6	2	14	300
1981...	140	115	5	4	2	12	250
1982...	140	115	5	4	2	12	250
1983...	**140**	**120**	**5**	**4**	**1**	**11**	**250**
				MAUI/MOLOKAI/LANAI			
1979...	205	100	17	5		5	500
1980...	210	110	17	5		5	500
1981...	190	110	17	5		5	500
1982...	200	100	17	6		5	500
1983...	**205**	**115**	**17**	**6**		**5**	**500**
				OAHU			
1979...	85	360	24	26	8	5	1,000
1980...	80	350	24	26	8	5	1,000
1981...	70	355	24	23	8	8	1,000
1982...	70	360	24	21	8	7	1,000
1983...	**70**	**330**	**24**	**19**	**8**	**5**	**1,000**

[1] End of year.
[2] Includes beef, dairy, and dairy replacement operations.
[3] Based on farm definition of $1,000 or more of agricultural sales.

SUMMARY: Volume of crop marketings, by islands, 1979-83

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)	Macadamia nuts (in shell)	Taro
	1,000 tons		1,000 pounds				
				STATE [1]			
1979..	9,632	681	70,250	56,600	2,190	26,660	6,640
1980..	9,214	657	70,710	67,800	1,440	33,390	6,400
1981..	8,831	636	73,330	83,010	2,210	33,360	6,100
1982..	8,808	670	72,740	70,820	990	36,720	6,460
1983..	8,926	722	89,400	78,900	2,500	36,420	5,440
				HAWAII			
1979..	4,036		27,910	37,400	2,190	26,570	1,220
1980..	3,718		31,290	51,570	1,440	33,270	700
1981..	3,507		32,040	64,650	2,210	33,240	450
1982..	3,780		34,510	55,010	990	36,600	880
1983..	3,840		40,100	67,170	2,500	36,200	740
				KAUAI/NIIHAU			
1979..	1,992		2,090	6,910		[2]	4,330
1980..	1,873	*	1,460	8,080		[2]	4,550
1981..	1,949	*	1,590	10,860		[2]	4,450
1982..	1,869	*	1,620	8,160		[2]	4,360
1983..	1,667	*	2,040	5,000		[2]	3,450
				MAUI/MOLOKAI/LANAI			
1979..	2,110	491	24,220	5,410		[2]	[2]
1980..	2,278	479	23,980	2,200		[2]	[2]
1981..	2,038	466	25,640	1,480		[2]	[2]
1982..	1,853	467	25,230	2,270		[2]	[2]
1983..	2,232	509	32,820	2,530		[2]	[2]
				OAHU			
1979..	1,494	190	16,030	6,880		[2]	[2]
1980..	1,345	178	13,980	5,950		[2]	[2]
1981..	1,337	170	14,060	6,020		[2]	[2]
1982..	1,306	203	11,380	5,380		[2]	[2]
1983..	1,187	213	14,440	4,200		[2]	[2]

* = Less than 500 tons.

[1] Sum of island estimates may not add to State total due to rounding of State estimates to 1,000 hundredweight of some crops included in United States totals.

[2] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Volume of livestock marketings, by islands, 1979-83

Year	Beef (dressed weight) [1]	Pork (dressed weight)	Milk	Eggs	Broilers and chickens (ready-to-cook weight)	Honey
	1,000 pounds		Million pounds	Million	1,000 pounds	
			STATE [2]			
1979...	29,325	7,785	147.3	229.3	7,136	910
1980...	28,809	8,012	149.4	220.5	7,890	861
1981...	28,666	8,708	147.9	221.3	9,046	875
1982...	29,048	8,557	106.4	202.2	8,571	920
1983...	**31,985**	**7,693**	**143.7**	**197.3**	**8,947**	**1,305**
			HAWAII			
1979...	17,317	834	[3]	[3]	[3]	[3]
1980...	18,201	929	[3]	[3]	[3]	[3]
1981...	18,179	947	[3]	[3]	[3]	[3]
1982...	19,880	716	[3]	[3]	[3]	[3]
1983...	**20,827**	**731**	[3]	[3]	[3]	[3]
			KAUAI			
1979...	2,515	378	[3]	[3]	[3]	[3]
1980...	3,165	648	[3]	[3]	[3]	[3]
1981...	2,342	704	[3]	[3]	[3]	[3]
1982...	1,992	636	[3]	[3]	[3]	[3]
1983...	**2,228**	**572**	[3]	[3]	[3]	[3]
			MAUI/MOLOKAI			
1979...	7,600	1,658	[3]	[3]	[3]	[3]
1980...	5,838	1,852	[3]	[3]	[3]	[3]
1981...	6,321	2,090	[3]	[3]	[3]	[3]
1982...	6,224	2,016	[3]	[3]	[3]	[3]
1983...	**7,115**	**1,802**	[3]	[3]	[3]	[3]
			OAHU			
1979...	1,893	4,915	117.5	197.6	6,739	[3]
1980...	1,605	4,583	119.4	191.1	7,550	[3]
1981...	1,824	4,967	116.6	192.7	8,684	[3]
1982...	952	5,189	75.6	174.1	8,214	[3]
1983...	**1,815**	**4,588**	**112.2**	**165.1**	[3]	[3]

[1] Includes slaughter cattle but excludes calves shipped out-of-State.
[2] State totals may not add due to rounding.
[3] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of crop sales, by islands, 1979-83

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)
			1,000 dollars		
			STATE		
1979..	217,600	69,409	18,388	11,957	3,132
1980..	385,100	76,596	18,552	12,982	2,304
1981..	207,500	89,745	21,669	15,516	4,420
1982..	230,800	94,364	23,024	14,846	2,129
1983..	**266,500**	**100,376**	**25,996**	**14,593**	**5,300**
			HAWAII		
1979..	79,500		6,624	7,674	3,132
1980..	137,500		7,274	9,619	2,304
1981..	76,800		8,827	11,521	4,420
1982..	86,900		10,792	11,472	2,129
1983..	**99,800**		**10,731**	**12,412**	**5,300**
			KAUAI		
1979..	47,700		722	1,617	
1980..	83,600	*	537	1,536	
1981..	46,000	*	595	2,095	
1982..	51,000	*	601	1,451	
1983..	**52,400**	*	**672**	**634**	
			MAUI/MOLOKAI/LANAI		
1979..	52,200	32,936	4,895	1,240	
1980..	100,800	36,404	5,276	383	
1981..	50,500	39,915	6,352	291	
1982..	55,000	38,602	6,356	496	
1983..	**73,400**	**45,099**	**8,032**	**503**	
			OAHU		
1979..	38,200	36,473	6,147	1,426	
1980..	63,200	40,192	5,465	1,444	
1981..	34,200	49,830	5,895	1,609	
1982..	37,900	55,762	5,275	1,427	
1983..	**40,900**	**55,277**	**6,561**	**1,044**	

See footnotes at end of table.

Continued

SUMMARY: Value of crop sales, by islands, 1979-83 -- Continued

Year	Macadamia nuts (in shell)	Taro	Field crops (not estimated separately) [1]	Flowers and nursery products [2]	Total crops [3]
			1,000 dollars		
			STATE		
1979..	16,769	1,089	3,557	20,778	362,789
1980..	24,174	1,280	4,101	27,688	552,877
1981..	26,454	1,305	5,107	29,482	401,348
1982..	27,136	1,447	4,651	30,600	429,147
1983..	**23,928**	**1,229**	**5,207**	**36,165**	**479,494**
			HAWAII		
1979..	16,712	239	100	9,780	123,856
1980..	24,071	162	60	12,089	193,169
1981..	26,355	104	56	12,496	140,712
1982..	27,047	197	12	13,559	152,243
1983..	**23,783**	**185**	**39**	**14,316**	**166,751**
			KAUAI		
1979..	[4]	641	935	153	51,819
1980..	[4]	865	1,085	615	88,296
1981..	[4]	934	1,297	740	51,724
1982..	[4]	972	1,384	299	55,763
1983..	[4]	**762**	**1,484**	**421**	**56,410**
			MAUI/MOLOKAI/LANAI		
1979..	[4]	[4]	1,536	2,899	95,918
1980..	[4]	[4]	1,773	4,342	149,218
1981..	[4]	[4]	2,387	3,979	103,685
1982..	[4]	[4]	3,029	3,925	107,687
1983..	[4]	[4]	**3,145**	**4,489**	**135,002**
			OAHU		
1979..	[4]	[4]	986	7,946	91,196
1980..	[4]	[4]	1,183	10,642	122,194
1981..	[4]	[4]	1,367	12,267	105,227
1982..	[4]	[4]	226	12,817	113,454
1983..	[4]	[4]	**539**	**16,939**	**121,331**

* = Less than $50,000.

[1] Forage and grain crops.

[2] Flowers, foliage, and nursery products.

[3] Total crop values shown for individual islands are actual. Sum of individual commodities may not add to total. Forest product's value combined and included in total crop value.

[4] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of livestock sales, total value of crop and livestock sales, and government payments, by islands, 1979-83

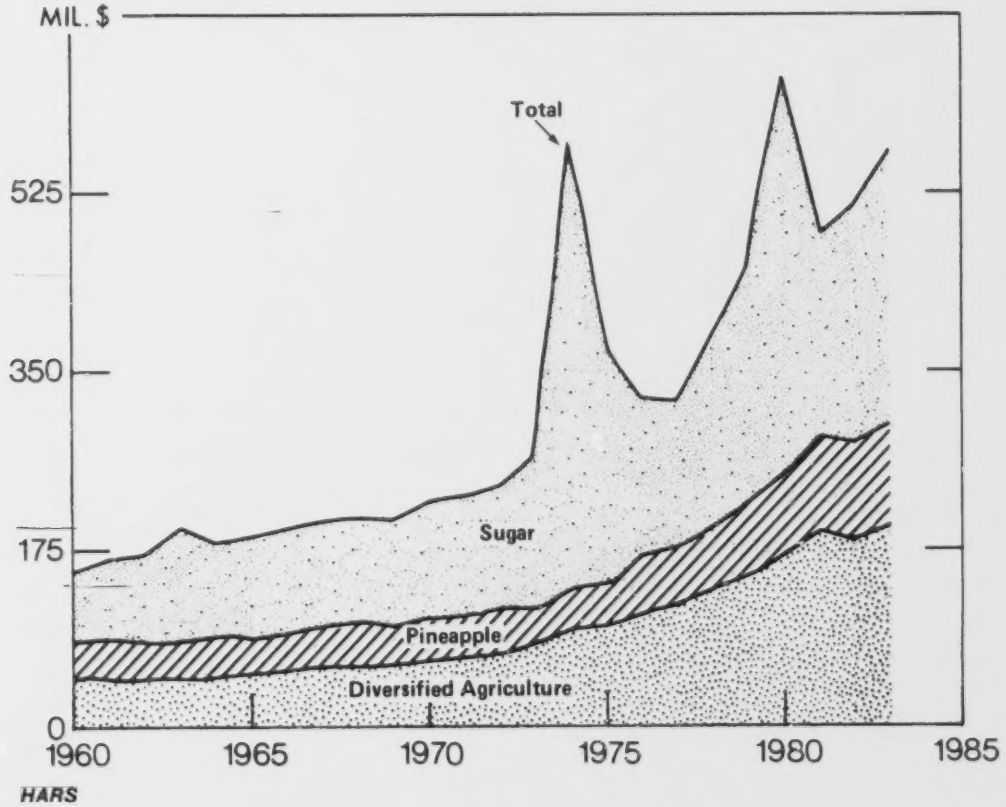
Year	Cattle [1]	Hogs [1]	Milk	Eggs	Broilers and chickens	Other [2]	Total livestock [3]	Total crops and livestock	Government payments [4]
	1,000 dollars								
	STATE								
1979..	28,356	7,027	24,894	14,007	3,655	525	78,464	441,253	745
1980..	28,074	7,457	27,071	13,910	4,181	531	81,224	634,101	716
1981..	28,405	8,382	30,320	15,159	5,307	581	88,154	489,502	587
1982..	27,619	8,465	21,908	14,542	5,240	634	78,408	507,555	586
1983..	29,308	7,775	28,869	14,041	5,529	891	86,413	565,907	6,775
	HAWAII								
1979..	17,323	784	[5]	[5]	[5]	352	21,290	145,146	522
1980..	17,973	892	[5]	[5]	[5]	337	22,471	215,640	542
1981..	18,059	954	[5]	[5]	[5]	379	23,018	163,730	440
1982..	18,907	758	[5]	[5]	[5]	464	23,777	176,020	476
1983..	18,831	785	[5]	[5]	[5]	688	23,838	190,589	401
	KAUAI								
1979..	2,137	391	[5]	[5]	[5]	29	4,376	56,195	60
1980..	3,118	674	[5]	[5]	[5]	45	5,732	94,028	41
1981..	2,295	746	[5]	[5]	[5]	63	5,244	56,968	43
1982..	1,913	683	[5]	[5]	[5]	22	4,724	60,487	27
1983..	2,139	633	[5]	[5]	[5]	37	5,103	61,513	101
	MAUI/MOLOKAI/LANAI								
1979..	7,178	1,625	[5]	[5]	[5]	112	11,546	107,464	101
1980..	5,580	1,865	[5]	[5]	[5]	115	10,084	159,302	87
1981..	6,398	2,146	[5]	[5]	[5]	91	11,605	115,290	69
1982..	6,043	2,110	[5]	[5]	[5]	105	11,358	119,045	64
1983..	6,893	1,922	[5]	[5]	[5]	125	12,367	147,369	96
	OAHU								
1979..	1,718	4,227	19,975	11,856	3,444	32	41,252	132,448	62
1980..	1,403	4,026	21,719	11,767	3,988	34	42,937	165,131	46
1981..	1,653	4,536	24,136	12,837	5,077	48	48,287	153,514	35
1982..	756	4,914	15,687	12,160	4,989	43	38,549	152,003	19
1983..	1,445	4,435	22,496	11,412	[5]	41	45,105	166,436	6,177

[1] Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.
[2] Includes sheep, wool, turkeys, horses, honey, and beeswax.
[3] Total livestock value shown for individual islands for 1979-1980 are actual. Sum of individual commodities may not add to total.
[4] Includes all government payments, such as Agricultural Conservation Program, Dairy Indemnity Payment Program, Emergency Conservation Program, Forestry Incentives Program, Emergency Feed Program, wool payments, and sugar support.
[5] Island data not shown separately to avoid disclosure of individual operations but combined and included in State total.

Diversified agriculture ranked by value, State of Hawaii, 1981-83

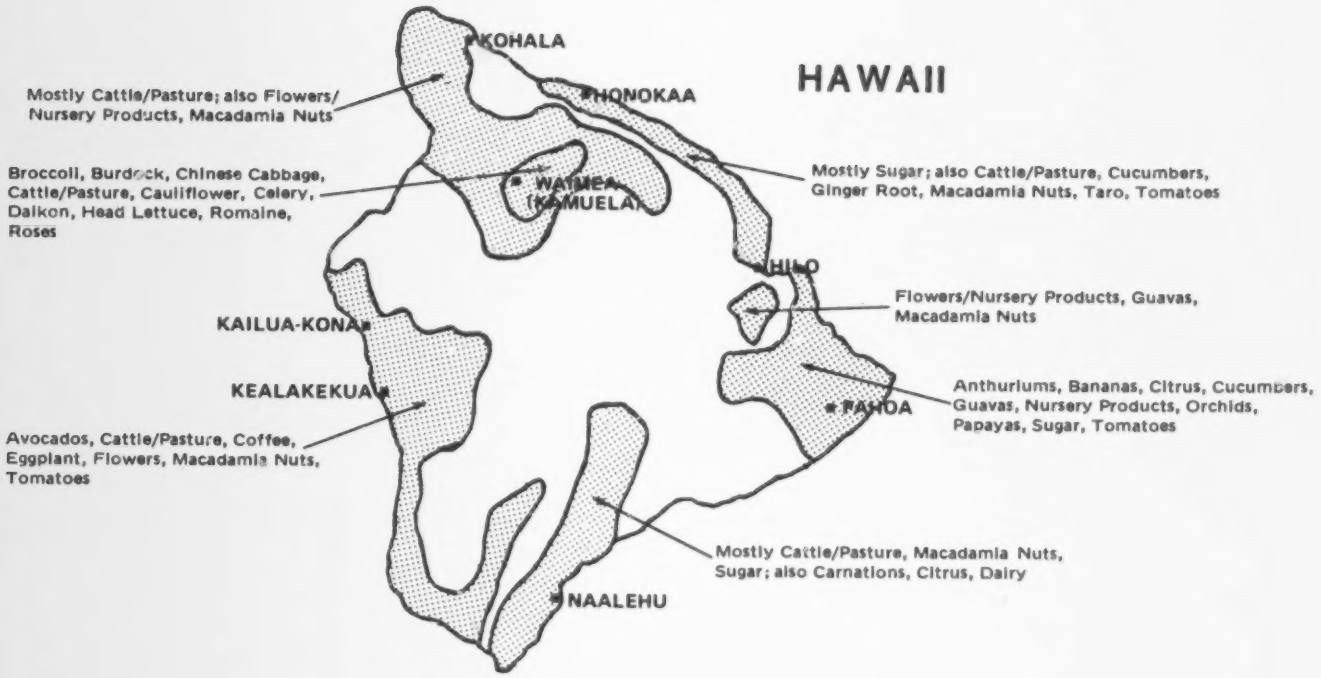
Crops	Rank			Value of production			Percent of diversified agriculture		
	1981	1982	1983	1981	1982	1983	1981	1982	1983
	Number			1,000 dollars			Percent		
Flowers and nursery products	2	1	1	29,482	30,600	36,165	15.3	16.8	18.2
Cattle	3	2	2	28,405	27,619	29,308	14.8	15.2	14.7
Milk	1	5	3	30,320	21,908	28,869	15.8	12.0	14.5
Vegetables and melons	5	4	4	21,669	23,024	25,996	11.3	12.6	13.1
Macadamia nuts	4	3	5	26,454	27,136	23,928	13.7	14.9	12.0
Fruits (excluding pineapple)	6	6	6	15,516	14,846	14,593	8.1	8.1	7.3
Eggs	7	7	7	15,159	14,542	14,041	7.9	8.0	7.1
Hogs	8	8	8	8,382	8,465	7,775	4.3	4.6	3.9
Broilers and chickens	9	9	9	5,307	5,240	5,529	2.8	2.9	2.8
Forage, grain, and forest products	10	10	10	5,257	4,801	5,407	2.7	2.6	2.7
Coffee	11	11	11	4,420	2,129	5,300	2.3	1.2	2.7
Taro	12	12	12	1,305	1,447	1,229	.7	.8	.6
Other livestock	13	13	13	581	634	891	.3	.3	.4
TOTAL				192,257	182,391	199,031	100.0	100.0	100.0

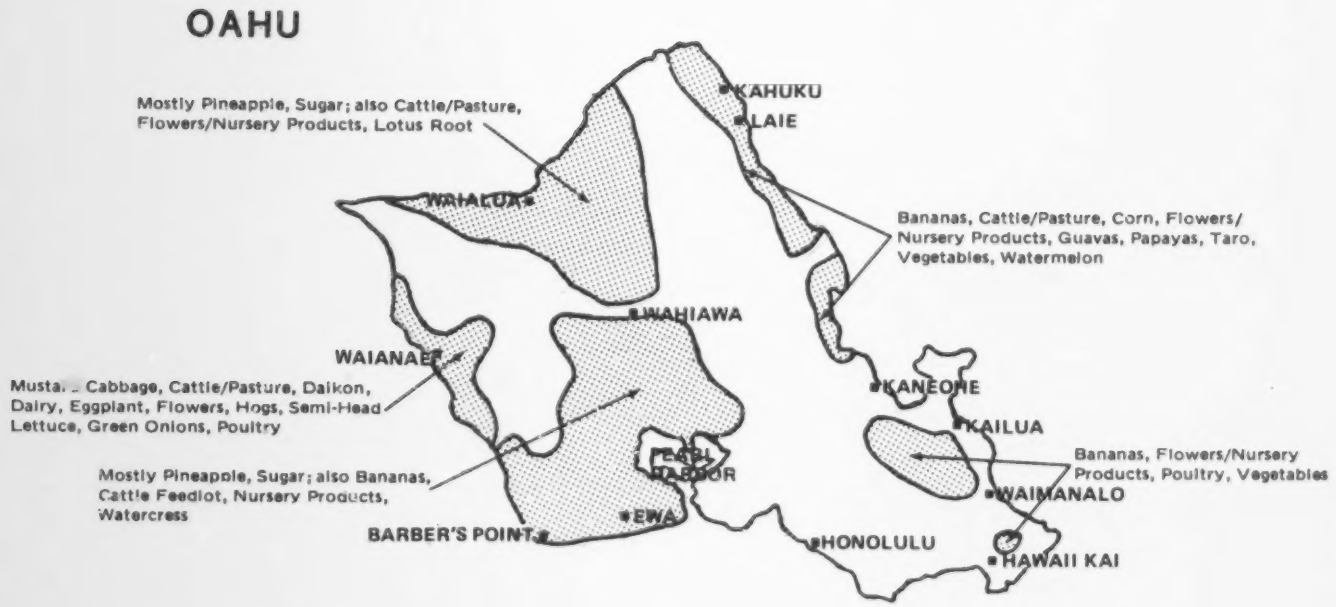
CASH RECEIPTS OF AGRICULTURAL COMMODITIES, STATE OF HAWAII, 1960-83

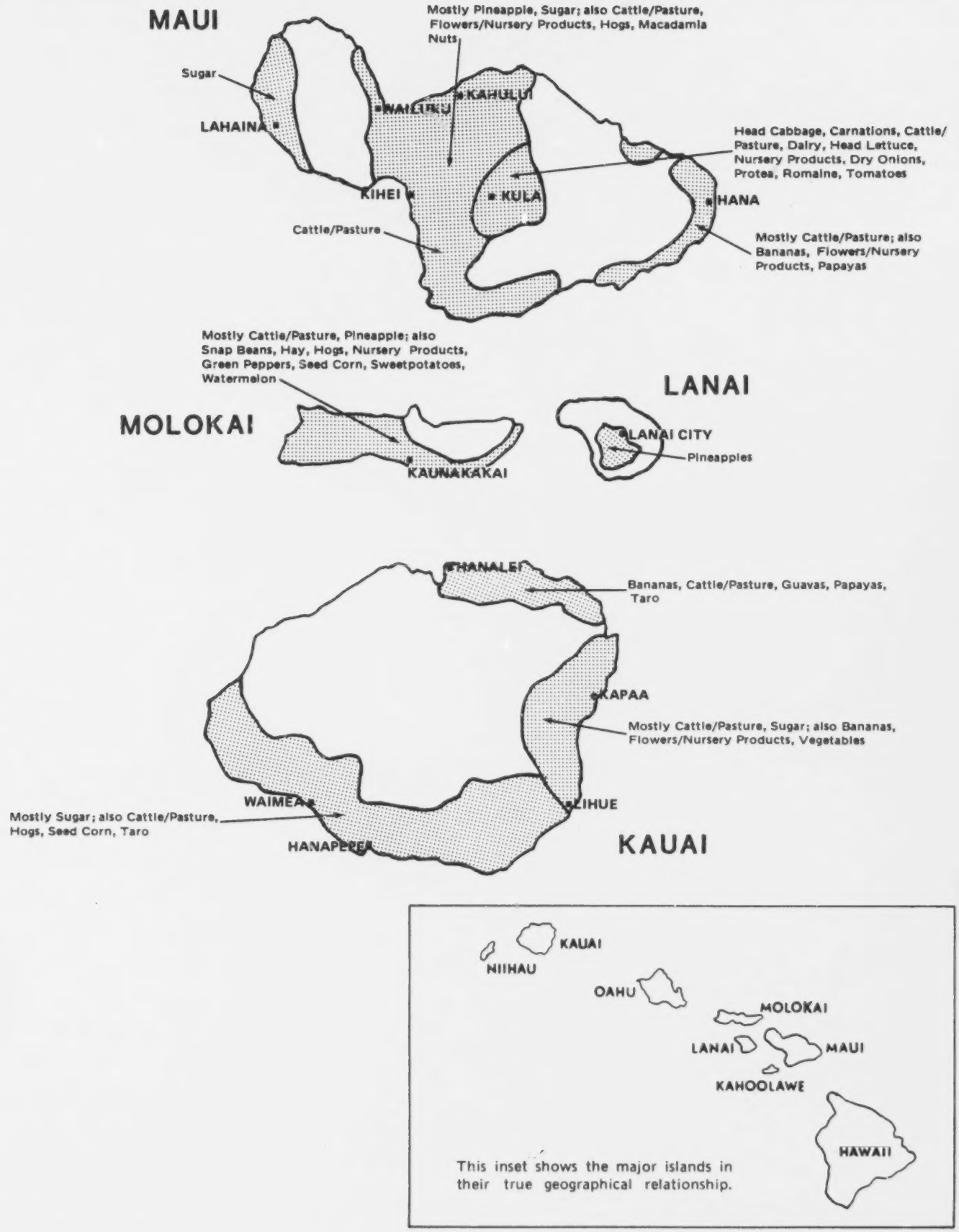


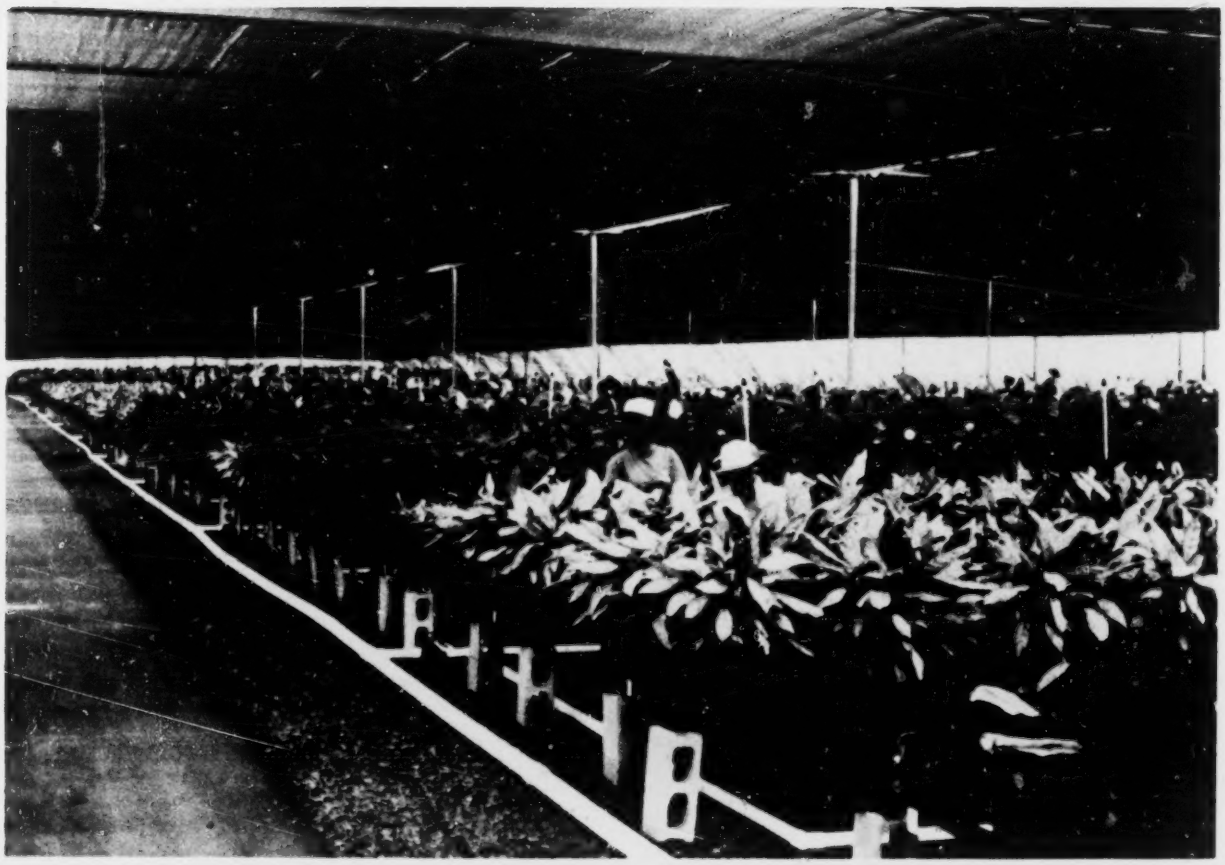
HARS

MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 1983


HAWAII
KOHALA
HONOKAA
Mostly Cattle/Pasture; also Flowers/ Nursery Products, Macadamia Nuts
Broccoli, Burdock, Chinese Cabbage, Cattle/Pasture, Cauliflower, Celery, Daikon, Head Lettuce, Romaine, Roses
WAIMEA (KAMUELA)
Mostly Sugar; also Cattle/Pasture, Cucumbers, Ginger Root, Macadamia Nuts, Taro, Tomatoes
HILO
Flowers/Nursery Products, Guavas, Macadamia Nuts
KAILUA-KONA
KEALAKEKUA
PAHOA
Anthuriums, Bananas, Citrus, Cucumbers, Guavas, Nursery Products, Orchids, Papayas, Sugar, Tomatoes
Avocados, Cattle/Pasture, Coffee, Eggplant, Flowers, Macadamia Nuts, Tomatoes
Mostly Cattle/Pasture, Macadamia Nuts, Sugar; also Carnations, Citrus, Dairy
NAALEHU




MAUI
Mostly Pineapple, Sugar; also Cattle/Pasture, Flowers/Nursery Products, Hogs, Macadamia Nuts
Sugar
KAHULUI
WAILUKU
LAHAINA
Head Cabbage, Carnations, Cattle/Pasture, Dairy, Head Lettuce, Nursery Products, Dry Onions, Protea, Romaine, Tomatoes
KIHEI
KULA
HANA
Cattle/Pasture
Mostly Cattle/Pasture; also Bananas, Flowers/Nursery Products, Papayas
Mostly Cattle/Pasture, Pineapple; also Snap Beans, Hay, Hogs, Nursery Products, Green Peppers, Seed Corn, Sweetpotatoes, Watermelon
MOLOKAI
KAUNAKAKAI
LANAI
LANAI CITY
Pineapples
HANALEI
Bananas, Cattle/Pasture, Guavas, Papayas, Taro
KAPAA
Mostly Cattle/Pasture, Sugar; also Bananas, Flowers/Nursery Products, Vegetables
WAIMEA
LIHUE
Mostly Sugar; also Cattle/Pasture, Hogs, Seed Corn, Taro
HANAPEPE
KAUAI
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII
This inset shows the major islands in their true geographical relationship.



1983 CROP SUMMARY

Hawaii farmers made substantial gains in 1983 as weather played a major role in determining the State's agricultural fortunes. Unlike the previous year, which will be remembered as being one of the wettest, conditions in 1983 were extremely dry. Weather was exceptionally dry early and late in the year with rainfall above normal during the summer and early fall months. In addition, the higher elevations had close to normal precipitation. The overall effect of the weather on agricultural crops was generally favorable. Most crops benefitted from the abundant sunshine. Those under irrigation had particularly good yields; record highs in a few cases. Water was adequate throughout most of the year with rainfall in the mountains maintaining reservoir levels. The only critical time came in April when water supplies reached very low levels in the major vegetable area of Waimea on the Big Island. As a result many farmers lost mature crops and reduced new plantings as water was rationed. Subsequent rains replenished reservoirs and only occasional, minor restrictions on irrigation occurred thereafter. A few crops, however, did not fare as well in 1983 as rainfall reached its lowest level on record in some areas. These crops were basically limited to those that depend on natural rainfall. Avocado, taro, banana, and macadamia nut growers reported that the arid conditions curtailed production to some extent. Damage from Hurricane Iwa in late 1982 also limited production of several crops.

SUGAR production is estimated at 1,044,000 tons, up 6 percent from 1982. An increase in acreage harvested and a rise in the sugar yield helped to offset a lower cane yield caused by hurricane damage to fields on Kauai and Oahu. Drier conditions contributed to a higher sugar recovery rate by promoting good crop growth with regular irrigation, and by allowing harvesting to be more efficient. Prices improved again in 1983 with the processed value of sugar and molasses estimated at $410.2 million, 17 percent above last year and the third highest total on record.

PINEAPPLE production increased for the second year in a row to 722,000 tons (fresh equivalent). This 8 percent increase from a year ago came about despite the announcement that a major processor would discontinue its canning operations. Fresh sales appear to have stayed at about the same level, but due to a change in the reporting and classification of fruit sold without tops this is somewhat misleading. A substantial amount previously included in fresh utilization is now counted as processed. Improved prices pushed the equivalent farm value to $100.4 million in 1983. Total value including that of canned pineapple is pegged at $219.0 million.

As the State's third ranking agricultural crop, **MACADAMIA NUT** production dipped slightly in 1983 to 36,420,000 pounds (in shell basis). The prolonged dry weather is reported to have adversely affected this past season's crop. The farm price dropped to its lowest level in 4 years at 65.7 cents per pound. Value of sales amounted to $23.9 million or 12 percent below 1982's record high.

Hawaii's **VEGETABLE AND MELON** farmers produced a record high harvest of 89,400,000 pounds in 1983. Expanding acreage, abundant sunshine, and adequate supplies of irrigation water produced record harvests for such crops as GINGER ROOT, CHINESE CABBAGE, HEAD CABBAGE, and LETTUCE. Farm price, however, dropped in response to the higher market supply for many commodities. Still, the value of 1983 sales reached a record high $26.0 million.

FRUIT production (excluding pineapples) amounted to 78,900,000 pounds, up 11 percent from 1982. Most of the increase is due to a 23 percent improvement in PAPAYA production on Hawaii island. Fruit crops were hardest hit by Hurricane Iwa as large tracts of papaya and BANANA fields were destroyed. Most of 1983 was used as a period of recovery, and production of these crops did not return to normal until year's end. Dry weather is also credited with reducing AVOCADO yields this past season. Value of all fruit sales dropped 2 percent to $14.6 million in 1983.

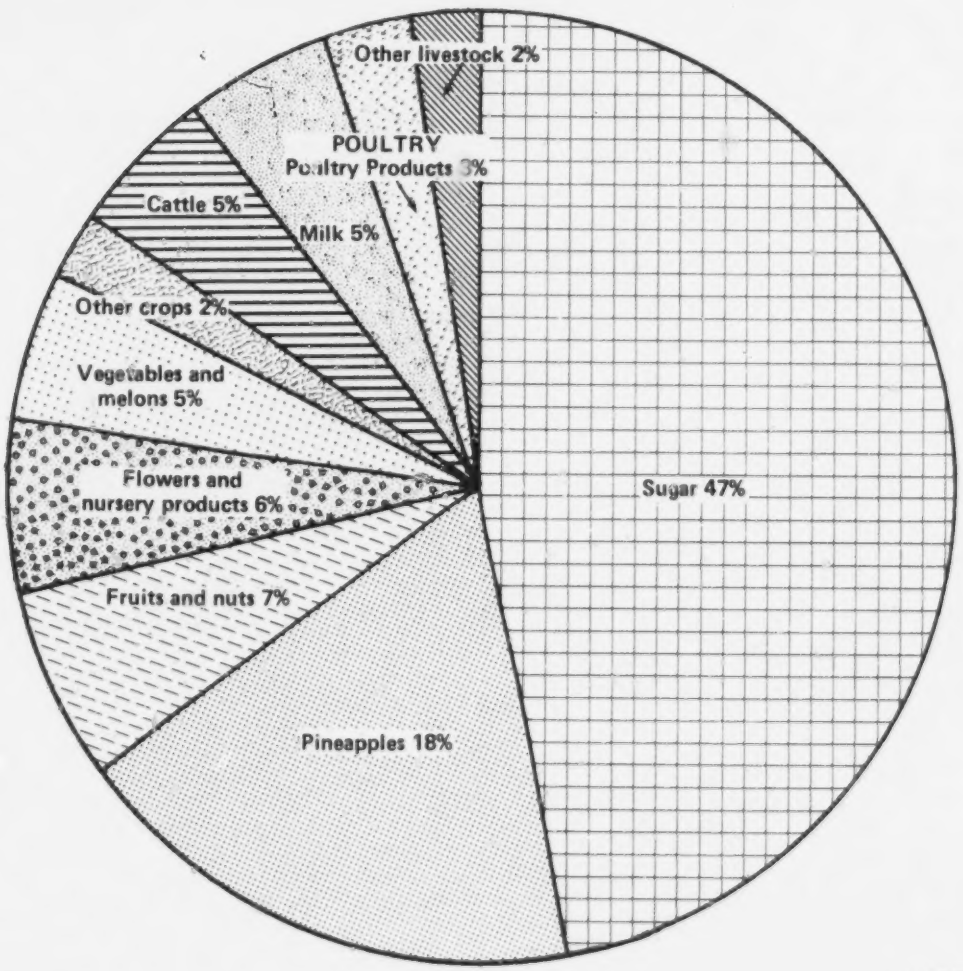
COFFEE production rebounded from its lowest season on record to its largest harvest in a decade at 2,500,000 pounds (parchment basis) in 1983. The bumper crop is mainly a result of favorable weather during the growing season as rainfall was adequate at the higher elevations of Kona where the State's only fields are located. World demand for gourmet coffee is attributed with keeping prices favorable to farmers at $2.12 a parchment pound. Total value is estimated at a record $5.3 million, making coffee the State's seventh ranking crop.

The **FLOWER AND NURSERY PRODUCT** industry rang up record sales of $36.2 million in 1983. This was 18 percent greater than the previous high set in 1982 and was the largest year-to-year increase since 1980. Much of the increase can be attributed to a stronger economy, market development efforts, and improved weather from 1982. Although nearly all of the crops registered gains from the previous year, the largest improvement came in the category of POTTED FOLIAGE PLANTS for indoor and patio use. Sales at $10.8 million was $2.0 million more than 1982, and when added to the sales of UNFINISHED FOLIAGE STOCK, totaled $12.3 million, one-third of the entire industry value. Cut ANTHURIUM flowers continued to recover, hitting $6.0 million for the first time since 1980. CUT AND POTTED ORCHID receipts amounted to $3.7 million, 25 percent greater than the previous year. The value of major LEI FLOWERS increased 17 percent from 1982, surpassing the $4 million mark for the first time.

Principal crops ranked by value, State of Hawaii, 1981-83

Crops	Rank			Value of production			Percent of all crops		
	1981	1982	1983	1981	1982	1983	1981	1982	1983
	Number			1,000 dollars			Percent		
Sugar	1	1	1	207,500	230,800	266,500	51.7	53.8	55.6
Pineapple	2	2	2	89,745	94,364	100,376	22.4	22.0	20.9
Macadamia nuts	3	3	3	26,454	27,136	23,928	6.6	6.3	5.0
Papayas	4	4	4	12,413	11,484	11,591	3.1	2.7	2.4
Potted foliage plants	5	5	5	7,268	8,820	10,836	1.8	2.1	2.3
Anthuriums	6	6	6	5,295	5,633	6,035	1.3	1.3	1.3
Coffee	7	10	7	4,420	2,129	5,300	1.1	.5	1.1
Tomatoes	8	8	8	2,930	2,707	3,367	.7	.6	.7
Lettuce	9	9	9	2,315	2,463	2,806	.6	.6	.6
Ginger root	10	7	10	2,179	3,350	2,803	.5	.8	.6

STATE OF HAWAII, 1983 AGRICULTURAL VALUE RATIOS



HARS

WEATHER: Precipitation, selected stations, State of Hawaii, 1983

STATIONS	YEAR & NORMAL	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	% OF NORMAL
ISLAND OF HAWAII															
Hawaii National Park Hq. 54	Normal	10.61	10.23	11.75	10.10	7.75	4.67	5.23	7.20	4.58	6.89	11.47	12.33	102.81	
	1983	.66	.72	1.02	7.26	9.10	4.18	4.73	7.74	8.51	7.17	2.53	9.39	63.01	61.3
Hawi 168	Normal	4.70	4.34	5.22	5.04	3.56	2.96	3.93	4.19	2.27	3.61	4.02	5.92	49.76	
	1983	.59	.53	1.76	2.76	5.10	4.68	4.41	4.79	4.05	4.66	3.75	9.04	46.12	92.7
Hilo (285)	Normal	9.07	12.90	13.69	12.88	10.07	6.61	9.54	10.88	7.44	10.96	13.77	15.76	133.57	
	1983	.90	.83	1.98	10.31	9.60	3.94	7.21	7.48	12.08	8.06	2.33	3.37	68.09	51.0
Kealakekua (HI84)	Normal	3.50	2.40	3.80	4.10	5.90	6.10	6.80	8.70	8.00	6.20	3.60	2.10	61.20	
	1983	2.10	.70	1.20	4.60	4.00	7.20	8.10	11.10	6.30	2.80	1.20	5.50	54.80	89.5
Naalehu 14	Normal	7.97	5.85	5.53	2.70	2.18	1.79	1.58	3.92	3.36	3.88	5.21	4.57	48.54	
	1983	1.55	.42	.61	2.49	3.81	.58	.52	1.97	2.94	.55	1.44	4.20	21.08	43.4
Pahoa (HI83)	Normal	11.02	13.17	15.16	12.59	11.87	8.10	10.20	11.13	8.50	11.81	14.28	17.28	145.11	
	1983	1.80	1.53	3.05	15.86	12.97	8.34	11.14	9.47	15.51	11.06	3.06	3.68	97.47	67.2
Waimea (HI86)	Normal	4.21	3.78	3.97	3.55	2.20	1.57	2.31	2.52	1.07	2.03	2.78	4.84	34.83	
	1983	1.00	1.40	1.70	8.80	4.00	3.10	3.30	1.80	3.80	8.70	1.50	5.60	44.70	128.3
ISLAND OF KAUAI															
Eleele 927	Normal	5.74	3.39	3.28	2.39	1.74	1.10	1.33	1.79	1.40	2.61	3.60	5.12	33.49	
	1983	1.10	.41	1.19	.73	1.77	.95	2.66	1.42	.57	.73	1.56	1.88	14.97	44.7
Kekaha 944	Normal	4.63	2.57	2.37	1.56	1.04	.25	.39	.75	.74	1.72	2.18	4.24	22.44	
	1983	.78	.42	1.98	.05	.18	.01	2.19	.18	1.13	.05	1.03	1.28	9.28	41.4
Wailua (HI40)	Normal	9.42	7.09	8.28	7.07	5.45	4.07	5.68	6.60	4.65	7.45	9.03	9.41	84.20	
	1983	1.80	.20	.60	6.90	5.90	4.50	9.50	9.70	5.10	5.80	3.40	1.30	54.70	65.0
ISLAND OF LANAI															
Lanai Airport (LNY)	Normal	5.50	1.40	1.60	.90	.70	.20	.50	.60	.70	1.60	1.20	2.30	17.20	
	1983	.72	.63	.33	.37	.12	1.34	.96	1.07	.89	--	.03	--	6.46	37.6
ISLAND OF MAUI															
Hamakuapoko HC & S 485	Normal	5.10	4.85	5.81	4.50	2.83	2.39	3.60	3.65	1.89	3.69	5.07	6.73	50.11	
	1983	1.38	.23	2.87	2.08	3.89	2.70	4.47	--	4.03	4.03	3.03	6.88	35.59	71.0
Hana Airport 355	Normal	9.47	7.93	8.85	7.14	5.70	3.82	5.28	5.78	4.85	6.48	8.16	6.76	80.22	
	1983	2.69	1.01	2.32	4.97	6.23	3.37	5.30	3.76	15.61	6.25	3.73	6.35	61.61	76.8
Kihei 311	Normal	3.67	1.76	2.03	.79	.27	.10	.15	.19	.07	.68	1.69	2.39	13.79	
	1983	.28	.16	.18	.03	.15	.00	.00	--	.12	.59	.07	6.99	8.57	62.2
Kula (HI65)	Normal	5.64	3.45	3.53	2.98	2.20	1.41	2.17	2.07	1.93	1.91	2.95	3.61	33.85	
	1983	1.35	.39	1.01	5.65	.58	5.07	4.64	1.26	3.46	2.84	.23	6.72	33.20	98.1
Lahaina 361	Normal	3.70	1.65	2.04	.93	.48	.09	.21	.33	.23	.90	2.07	2.86	15.49	
	1983	.06	.27	.00	.00	.00	.02	.02	.46	.28	.59	.00	8.00	9.70	62.6
Wailuku (HI66)	Normal	4.88	3.81	4.16	2.41	1.02	43	.74	.77	.49	1.86	2.79	4.65	28.01	
	1983	.94	.42	1.40	.56	1.84	.27	.36	.65	1.38	1.35	1.06	10.30	20.53	73.3
ISLAND OF MOLOKAI															
Molokai Airport (MKK)	Normal	4.64	2.84	3.90	1.90	1.14	.48	.74	.76	.70	1.59	3.48	4.37	26.54	
	1983	.87	1.01	.93	1.02	.36	.36	.78	.91	.78	2.09	.92	4.83	14.86	56.0
ISLAND OF OAHU															
Kahuku (HI09)	Normal	4.40	3.10	4.40	2.90	1.90	1.30	1.70	2.10	1.90	2.50	3.40	4.10	33.70	
	1983	1.80	.90	.80	1.30	1.10	1.40	1.80	1.70	3.60	1.70	1.90	1.50	19.50	57.9
Waialua 847	Normal	4.99	3.65	3.84	2.32	1.34	.44	.95	1.26	.67	2.27	3.15	4.64	29.52	
	1983	3.87	.68	2.03	.98	.85	.53	.78	1.11	2.11	1.01	--	1.44	15.39	52.1
Waianae (HI17)	Normal	3.79	3.13	2.31	1.12	.61	.35	.38	.84	.77	1.87	1.81	2.66	19.64	
	1983	.47	.05	1.66	1.75	.05	.09	.39	1.68	1.37	.12	.09	.58	8.30	42.3
Waimanalo Exp. 795.1	Normal	8.35	3.98	5.80	4.11	2.83	1.22	1.92	1.88	1.81	3.59	6.31	6.26	48.06	
	1983	2.30	1.09	1.20	2.59	1.87	.65	1.26	2.63	2.49	1.69	.90	1.97	20.64	43.0
Waipahu Sugar 750	Normal	5.00	2.71	3.20	1.88	1.20	.36	.76	.92	.84	2.04	3.35	4.09	26.35	
	1983	.45	.02	.26	1.05	.92	.39	.71	.43	.89	.38	.28	1.35	7.13	27.1

-- = No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration.

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by islands, 1979-83 [1]

Year	Farms [2]	Acreage		Yield per acre (cane) [3]	Production of cane for sugar	Farm price [3]	Value of cane for sugar [4]
		In crop [2]	Harvested for sugar				
	Number	1,000 acres		Tons	1,000 tons	Dollars per ton	Million dollars
				STATE			
1979..	400	218.8	100.6	95.7	9,632	22.60	217.6
1980..	380	217.7	97.4	94.6	9,214	41.80	385.1
1981..	360	216.1	97.6	90.5	8,831	23.50	207.5
1982..	285	204.8	89.3	98.6	8,808	26.20	230.8
1983..	230	194.3	92.8	96.2	8,926	29.90	266.5
				HAWAII			
1979..	389	91.7	39.4	102.5	4,036	19.70	79.5
1980..	369	91.2	37.4	99.5	3,718	37.00	137.5
1981..	349	90.5	38.4	91.3	3,507	21.90	76.8
1982..	274	83.2	35.1	107.8	3,780	23.00	86.9
1983..	219	75.6	35.7	107.6	3,840	26.00	99.8
				KAUAI			
1979..	5	45.8	23.2	85.7	1,992	24.00	47.7
1980..	5	46.0	22.5	83.4	1,873	44.60	83.6
1981..	5	45.8	21.8	89.4	1,949	23.60	46.0
1982..	5	44.9	20.9	89.5	1,869	27.30	51.0
1983..	5	44.1	21.1	79.0	1,667	31.40	52.4
				MAUI			
1979..	3	47.7	21.0	100.6	2,110	24.70	52.2
1980..	3	47.4	22.5	101.3	2,278	44.20	100.8
1981..	3	47.1	22.5	90.6	2,038	24.80	50.5
1982..	3	47.5	19.2	96.3	1,853	29.70	55.0
1983..	3	47.4	22.3	100.1	2,232	32.90	73.4
				OAHU			
1979..	3	33.6	17.0	87.8	1,494	25.60	38.2
1980..	3	33.1	15.0	89.5	1,345	47.00	63.2
1981..	3	32.7	14.9	89.7	1,337	25.60	34.2
1982..	3	29.2	14.1	92.7	1,306	29.00	37.9
1983..	3	27.2	13.7	86.6	1,187	34.50	40.9

[1] Primary data source, Hawaiian Sugar Planters' Association.
[2] At end of year.
[3] Yield and farm price may not compute exactly due to rounding.
[4] Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

SUGAR: Production of raw sugar and molasses, price, and value, by islands, 1979-83 [1]

Year	Mill production		Average returns received [3]		Value of production		
	Raw sugar 96°	Molasses [2]	Raw sugar 96°	Molasses [2]	Raw sugar 96°	Molasses [2]	Total
	1,000 tons		Dollars per ton		Million dollars		
			STATE				
1979...	1,060	326	304	72.10	322.2	23.5	345.7
1980...	1,023	315	554	87.90	566.4	27.7	594.1
1981...	1,048	312	300	43.90	314.2	13.7	327.9
1982...	983	287	350	27.60	343.9	7.6	351.5
1983...	**1,044**	**292**	**380**	**46.00**	**396.5**	**13.7**	**410.2**
			HAWAII				
1979...	388	119	304	71.40	117.9	8.5	126.4
1980...	367	107	553	86.90	202.9	9.3	212.2
1981...	384	105	299	43.80	114.9	4.6	119.5
1982...	369	99	350	27.60	129.0	2.8	131.8
1983...	**392**	**105**	**379**	**46.00**	**148.6**	**4.9**	**153.5**
			KAUAI				
1979...	233	69	303	72.50	70.6	5.0	75.6
1980...	223	65	553	87.70	123.4	5.7	129.1
1981...	236	69	300	43.50	71.0	3.0	74.0
1982...	217	63	351	27.10	76.2	1.6	77.8
1983...	**204**	**63**	**381**	**46.10**	**77.9**	**2.9**	**80.8**
			MAUI				
1979...	253	81	304	72.80	76.8	5.9	82.7
1980...	266	90	554	88.90	147.4	8.0	155.4
1981...	255	84	300	45.20	76.6	3.8	80.4
1982...	235	79	351	28.00	82.2	2.2	84.4
1983...	**287**	**85**	**381**	**45.80**	**109.2**	**4.0**	**113.2**
			OAHU				
1979...	186	57	306	71.90	56.9	4.1	61.0
1980...	167	53	555	88.70	92.7	4.7	97.4
1981...	173	54	299	42.60	51.7	2.3	54.0
1982...	162	46	349	27.90	56.5	1.0	57.5
1983...	**161**	**39**	**379**	**46.20**	**60.8**	**1.9**	**62.7**

[1] Primary data source, Hawaiian Sugar Planters' Association.
[2] Commercial.
[3] Derived from production and value. State and island prices may not compute exactly due to rounding.

FLOWERS AND NURSERY PRODUCTS: State of Hawaii, 1979-83

Commodity	Number of farms					Number sold					Value of sales				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
											1,000 dollars				
Selected cut flowers:															
(000 dozens)															
Anthuriums	180	228	235	225	**210**	2,111	2,532	2,104	1,984	**2,054**	5,568	6,878	5,295	5,633	**6,035**
Birds of Paradise	16	27	30	30	**37**	13	27	28	17	**34**	33	70	77	58	**110**
Carnations	14	15	10	9	**10**	40	54	53	36	**79**	74	102	114	80	**179**
Chrysanthemums, other	5	4	3	3	**3**	10	7	11	2	**7**	43	27	43	9	**27**
Ginger, red	[1]	[1]	51	51	**50**	NA	NA	65	64	**68**	[1]	[1]	157	205	**207**
Roses	5	6	6	6	**7**	246	339	452	478	**561**	726	798	1,032	1,381	**1,761**
Protea: (000 stems)															
Pincushion	10	12	14	14	**15**	819	703	518	637	**491**	195	181	183	210	**100**
Other	7	13	12	21	**22**	186	211	164	347	**534**	86	113	137	201	**335**
Chrysanthemums, pompon (000 bunches)	12	15	16	17	**14**	325	364	471	439	**448**	282	343	590	546	**641**
Other NSS	63	84	72	61	**60**	NA	NA	NA	NA	**NA**	498	752	553	406	**511**
Orchids:															
Cut: (000 flowers)															
Cattleyas	16	30	31	28	**26**	51	88	63	67	**56**	30	70	63	54	**49**
Cymbidiums	18	17	16	17	**14**	628	448	420	736	**577**	245	150	199	224	**173**
Dendrobium sprays (000 dozens)	26	41	51	56	**60**	44	70	83	78	**123**	192	336	431	440	**774**
Other NSS[2]	15	19	13	24	**29**	NA	NA	NA	NA	**NA**	45	16	10	83	**120**
Potted: (000 pots)															
Dendrobiums	[3]	75	96	91	**90**	[3]	269	243	186	**229**	[3]	1,189	870	777	**1,032**
Other orchids	76	67	70	66	**65**	460	245	347	312	**328**	1,508	1,038	1,655	1,415	**1,588**
Lei flowers: (Mil. blooms)															
Carnations	21	25	24	29	**23**	36.8	36.6	40.3	33.7	**35.9**	1,140	1,169	1,338	1,206	**1,304**
Vanda, Miss Joaquim	26	35	31	31	**28**	31.6	38.8	57.1	42.5	**40.6**	441	573	815	1,185	**1,226**
Plumeria	17	21	20	21	**18**	38.6	23.7	17.8	31.9	**30.5**	418	440	291	446	**460**
Tuberose	3	5	6	7	**6**	21.1	32.0	30.8	18.2	**27.0**	401	684	668	382	**758**
Dendrobiums	9	21	25	37	**42**	2.8	6.6	8.5	6.5	**7.6**	73	175	244	179	**234**
Pikake (000 strands)	5	16	15	16	**17**	69	147	140	118	**124**	81	169	180	155	**163**
Foliage:															
Potted:															
Primarily for indoor or patio use	99	95	94	90	**80**	NA	NA	NA	NA	**NA**	4,052	5,190	7,268	8,820	**10,836**
Primarily for landscape use	36	35	51	41	**40**	NA	NA	NA	NA	**NA**	812	1,119	1,335	930	**845**
Unfinished stock: (for further growing on)	30	29	27	29	**24**	NA	NA	NA	NA	**NA**	770	1,366	950	1,233	**1,430**
Cut:															
Ti leaves (Mil. leaves)	35	62	57	55	**60**	11.5	14.5	10.1	10.5	**10.6**	285	332	266	279	**375**
Other greens	20	34	32	30	**33**	NA	NA	NA	NA	**NA**	149	242	252	280	**291**
Potted flowering plants:															
(000 pots)															
Anthuriums	[4]	24	21	15	**14**	[4]	129	98	82	**142**	[4]	230	128	126	**190**
Chrysanthemums	9	11	11	11	**8**	189	192	205	214	**218**	523	607	689	681	**743**
Poinsettias	24	30	25	26	**25**	120	134	136	149	**150**	323	410	430	474	**513**
Other NSS	73	70	83	76	**35**	NA	NA	NA	NA	**NA**	102	221	230	417	**496**
Ornamentals and trees	73	65	72	39	**42**	NA	NA	NA	NA	**NA**	1,027	1,181	851	463	**773**
Other nursery products[5]	14	71	99	77	**92**	NA	NA	NA	NA	**NA**	656	1,517	2,138	1,622	**1,886**
TOTAL	[6]580	[6]640	[6]680	[6]650	**[6]680**						20,778	27,688	29,482	30,600	**36,165**

NA = Not available.
NSS = Not shown separately.
[1] Prior to 1981, included with other gingers.
[2] Includes vanda hybrids, phalaenopsis, and cypripediums.
[3] Prior to 1980, dendrobium figures included in all potted orchid category now called other orchids.
[4] Included in other potted plant figures.
[5] Includes bedding plants, plant rentals, and any other flowers or nursery products not elsewhere classified.
[6] Unduplicated count. Number for each individual flower or item is count of those having sales of that item during each year.

FLOWERS AND NURSERY PRODUCTS, BY ISLANDS, 1979-83

Island/Commodity	Number sold					Value of sales				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
HAWAII						1,000 dollars				
Selected items:										
Anthuriums (000 dozens)	2,050	2,444	2,021	1,940	1,975	5,371	6,596	5,037	5,470	5,766
Cymbidiums (000 flowers)	628	448	417	730	570	245	150	197	220	168
Vanda, Miss Joaquim (Million flowers)	29.2	36.5	55.3	41.3	39.5	398	534	786	1,160	1,200
Cut foliage	NA	NA	NA	NA	NA	222	325	265	320	455
Potted orchids (000 pots)	145	147	147	116	154	381	417	537	525	688
Potted foliage (indoor or patio use)	NA	NA	NA	NA	NA	1,619	2,269	3,522	3,600	3,380
Ornamentals and trees	NA	NA	NA	NA	NA	196	110	165	60	30
Unfinished stock and cuttings	NA	NA	NA	NA	NA	326	661	747	[illegible]	315
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	1,022	1,027	1,240	1,804	2,314
TOTAL						9,780	12,089	12,496	13,559	14,316
KAUAI										
Selected items:										
Anthuriums (000 dozens)	8	5	5	3	4	20	11	10	8	7
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	133	604	730	291	414
TOTAL						153	615	740	299	421
MAUI/MOLOKAI										
Selected items:										
Carnations, cut (000 doz.)	28	53	53	36	72	50	102	114	80	159
Chrysanthemums, pompon (000 bunches)	73	61	45	52	56	64	65	51	58	61
Protea: (000 stems)										
Pincushion	798	662	436	549	435	183	167	154	187	75
Other	185	210	163	315	525	81	112	135	195	325
Carnation heads (000 flowers)	34.0	35.7	38.8	32.0	34.0	1,137	1,142	1,291	1,153	1,250
Potted foliage (indoor or patio use)	NA	NA	NA	NA	NA	[2]	[2]	525	640	620
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	1,384	2,754	1,709	1,612	1,999
TOTAL						2,899	4,342	3,979	3,925	4,489

See footnotes at end of table.

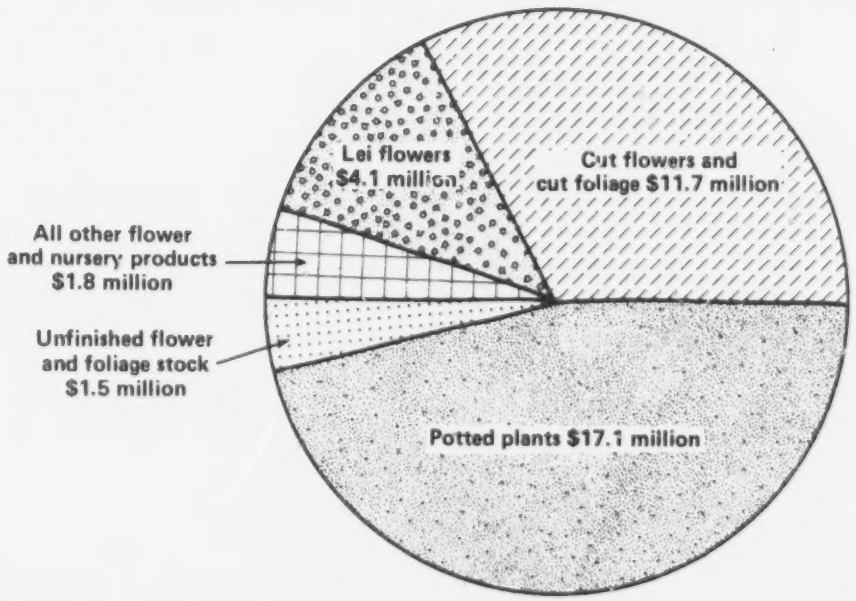
Continued

FLOWERS AND NURSERY PRODUCTS, BY ISLANDS, 1979-83 -- Continued

Island/Commodity	Number sold					Value of sales				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
OAHU						1,000 dollars				
Selected items:										
Anthuriums, cut (000 dozens)	61	82	78	40	75	176	269	246	154	261
Ginger, red (000 dozens)	NA	NA	38	46	48	[3]	[3]	104	147	145
Gingers, other	NA	NA	NA	NA	NA	87	206	10	5	7
Chrysanthemums, pompon (000 bunches)	252	304	332	303	295	218	278	381	336	400
Cattleyas (000 flowers)	23	50	45	50	45	16	49	46	44	40
Dendrobium, sprays (000 dozens)	28	54	65	60	90	132	274	354	349	590
Plumeria (Million flowers)	18.0	15.5	4.0	12.2	10.7	246	269	91	159	155
Dendrobiums, for lei (Million flowers)	2.8	6.4	8.5	5.8	6.5	72	169	235	154	196
Pikake (000 strands)	69	144	137	118	120	81	163	174	155	159
Cut foliage	NA	NA	NA	NA	NA	212	248	249	237	195
Potted chrysanthemums	41	41	50	73	73	109	152	150	196	235
Potted orchids	272	310	438	344	368	975	1,296	1,836	1,478	1,711
Potted poinsettias	84	90	93	105	109	202	241	254	316	354
Potted foliage (indoor or patio use)	NA	NA	NA	NA	NA	2,304	3,428	4,173	4,575	6,800
Unfinished stock and cuttings	NA	NA	NA	NA	NA	576	740	1,933	795	770
All other flowers and nursery products [1]	NA	NA	NA	NA	NA	2,810	2,860	2,031	3,717	4,921
TOTAL						7,946	10,642	12,267	12,817	16,939

NA = Not available.
[1] Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc. for the islands are included in the all other category.
[2] Included in other nursery products figures.
[3] Prior to 1981, included with other gingers.

VALUE OF 1983 FLOWERS AND NURSERY PRODUCTS, STATE OF HAWAII


Lei flowers $4.1 million
Cut flowers and cut foliage $11.7 million
All other flower and nursery products $1.8 million
Unfinished flower and foliage stock $1.5 million
Potted plants $17.1 million

HARS

FLOWERS AND NURSERY PRODUCTS: Number of farms and growing area, by islands, 1979-83

Year	Hawaii	Kauai	Maui	Oahu	State
			NUMBER OF FARMS - - Unduplicated		
1979.....	290	25	95	170	580
1980.....	300	25	95	220	640
1981.....	330	25	85	240	680
1982.....	310	25	80	235	650
1983.....	320	25	85	250	680
			GREENHOUSE - - 1,000 square feet [1]		
1979.....	750	70	200	605	1,625
1980.....	870	32	200	651	1,753
1981.....	1,202	38	280	775	2,295
1982.....	1,270	20	191	918	2,399
1983.....	1,164	15	193	955	2,327
			ARTIFICIAL SHADE STRUCTURE - - 1,000 square feet		
1979.....	13,450	165	450	2,885	16,950
1980.....	15,352	69	652	3,494	19,567
1981.....	18,529	63	734	3,742	23,068
1982.....	19,425	182	648	4,871	25,126
1983.....	19,252	103	958	6,016	26,329
			NATURAL SHADE AREA - - Acres		
1979.....	110	1	2	3	116
1980.....	119	4	--	7	130
1981.....	116	6	--	11	133
1982.....	104	3	--	12	119
1983.....	98	3	--	5	106
			OPEN FIELD - - Acres		
1979.....	330	20	190	230	770
1980.....	316	16	254	272	858
1981.....	331	19	255	290	895
1982.....	333	38	243	263	877
1983.....	420	24	248	330	1,022
			TOTAL AREA - - Acres		
1979.....	766	26	207	313	1,312
1980.....	807	22	274	374	1,477
1981.....	900	27	278	405	1,610
1982.....	912	46	262	408	1,628
1983.....	987	30	274	495	1,786

- = Less than 500 square feet.

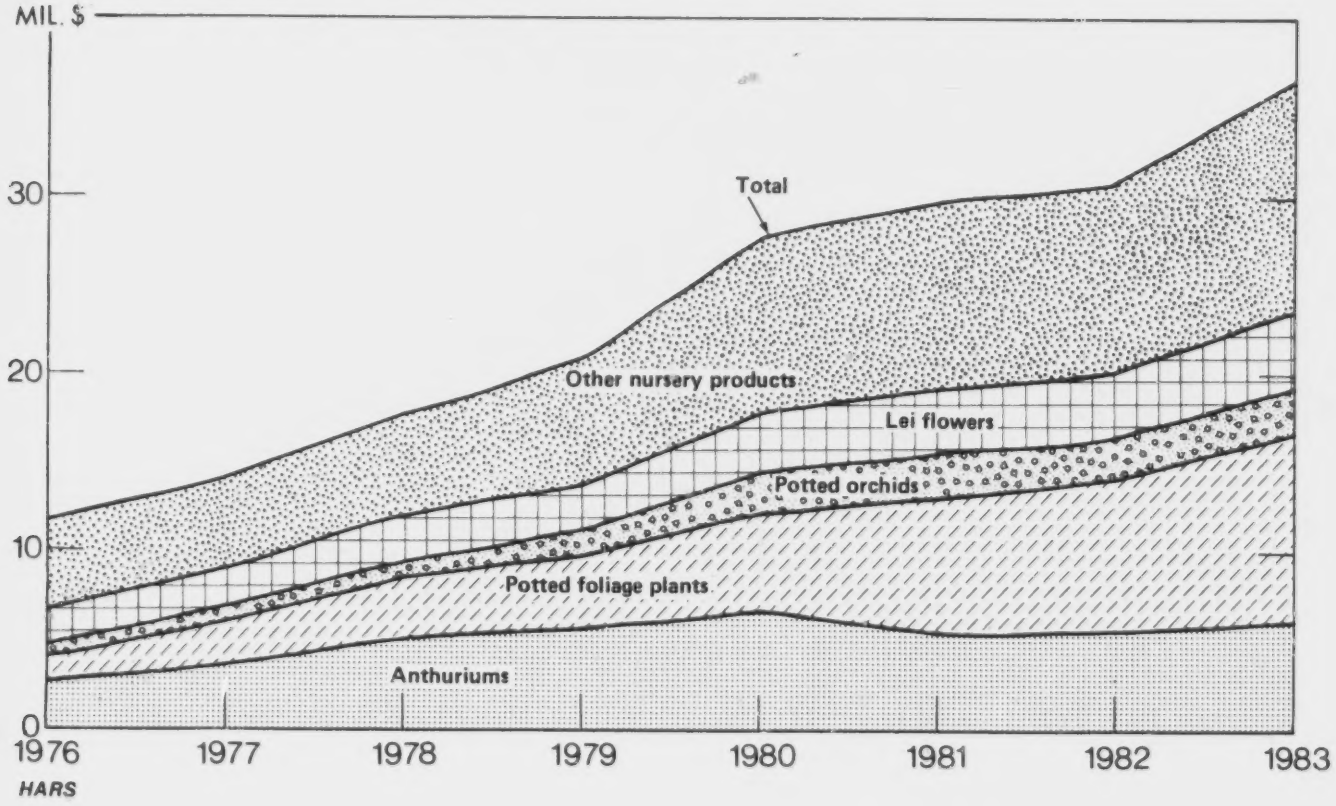
[1] Glass or glass substitute structure.

FLOWERS AND NURSERY PRODUCTS: Area used for production, State of Hawaii, 1983

Area used for	Greenhouse-Glass or glass substitute	Artificial shade-Saran, lath, etc.	Natural shade-Hapu'u, citrus, etc.	Open field
	1,000 square feet		Acres	
Anthuriums	--	16,625	98	--
Dendrobium orchids	422	1,543	--	2
All other orchids [1]	415	400	--	72
Potted foliage	620	5,419	1	193
Protea	--	--	--	109
All other flowers and nursery products	870	2,342	7	646
TOTAL	2,327	26,329	106	1,022

-- = Less than 500 square feet.
[1] Includes vandas.

VALUE OF FLOWERS AND NURSERY PRODUCTS, STATE OF HAWAII, 1976-83



ANTHURIUMS: Area used for production, by islands, 1979-83

Year	Hawaii	Kauai	Maui	Oahu	State
	1,000 square feet				
	ARTIFICIAL SHADE STRUCTURE				
1979.....	11,150	55	5	460	11,670
1980.....	12,646	30	3	426	13,105
1981.....	15,300	21	3	386	15,710
1982.....	15,800	15	3	350	16,168
1983.....	**16,200**	**22**	**3**	**400**	**16,625**
	NATURAL SHADE AREA				
1979.....	4,574	0	0	44	4,618
1980.....	4,879	44	0	44	4,967
1981.....	4,574	44	0	--	4,618
1982.....	4,356	--	--	44	4,400
1983.....	**4,250**	**9**	**4**	**20**	**4,283**
	TOTAL ARTIFICIAL AND NATURAL SHADE				
1979.....	15,724	55	5	504	16,288
1980.....	17,525	74	3	470	18,072
1981.....	19,874	65	3	386	20,328
1982.....	20,156	15	3	394	20,568
1983.....	**20,450**	**31**	**7**	**420**	**20,908**

-- = Less than 500 square feet.

ANTHURIUMS: Mainland and foreign shipments from the Island of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Mainland:													
1979.....	34.5	39.7	31.7	27.2	33.1	32.7	33.2	30.4	31.5	36.0	34.3	49.4	413.7
1980.....	28.2	35.6	34.2	39.6	41.7	41.9	38.3	40.5	43.2	46.9	40.0	53.3	483.4
1981.....	32.7	44.9	36.9	45.1	44.0	41.4	42.3	43.4	46.1	45.4	44.2	61.3	527.7
1982.....	48.7	60.9	44.5	48.6	50.9	43.0	46.6	57.3	55.2	54.5	54.0	82.8	647.0
1983.....	**59.7**	**73.9**	**48.5**	**54.1**	**54.3**	**52.3**	**52.1**	**56.0**	**59.1**	**58.8**	**64.1**	**87.4**	**720.3**
Foreign:													
1979.....	67.4	65.8	92.3	106.0	120.5	99.8	106.9	132.8	109.7	145.2	138.4	114.2	1,299.0
1980.....	95.4	80.2	102.4	112.3	122.8	92.9	127.5	122.1	133.6	185.7	122.0	134.0	1,430.9
1981.....	105.2	81.6	85.9	112.9	87.4	96.5	131.4	98.5	106.3	129.2	94.7	124.6	1,254.2
1982.....	80.8	75.1	76.7	98.2	66.2	77.0	100.9	96.9	109.4	119.4	91.9	104.2	1,096.7
1983.....	**66.0**	**53.6**	**63.3**	**64.3**	**56.2**	**79.7**	**87.3**	**98.1**	**107.8**	**128.7**	**101.7**	**93.1**	**999.8**
Total shipments:													
1979.....	101.9	105.5	124.0	133.2	153.6	132.5	140.1	163.2	141.2	181.2	172.7	163.6	1,712.7
1980.....	123.6	115.8	136.6	151.9	164.5	134.8	165.8	162.6	176.8	232.6	162.0	187.3	1,914.3
1981.....	137.9	126.5	122.8	158.0	131.4	137.9	173.7	141.9	152.4	174.6	138.9	185.9	1,781.9
1982.....	129.5	136.0	121.2	146.8	117.1	120.0	147.5	154.2	164.6	173.9	145.9	187.0	1,743.7
1983.....	**125.7**	**127.5**	**111.8**	**118.4**	**110.5**	**132.0**	**139.4**	**154.1**	**166.9**	**187.5**	**165.8**	**180.5**	**1,720.1**

MAINLAND ANTHURIUM SHIPMENTS: Percent of flowers sold, by size, 1979-83

Year	Miniature	Small	Medium	Large	Extra-large
1979.....	19	25	31	23	2
1980.....	22	26	30	21	1
1981.....	20	25	31	22	2
1982.....	19	25	31	23	2
1983.....	19	26	32	20	3

ANTHURIUMS: Foreign shipments, by destination, 1979-83

Destination	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Australia:													
1979....	1.2	2.5	4.4	4.7	6.3	4.6	4.4	5.1	3.6	3.5	4.1	3.9	48.3
1980....	2.3	2.2	2.3	3.9	6.2	3.9	5.1	4.2	4.0	4.5	2.9	6.3	47.8
1981....	2.5	3.8	3.8	6.3	5.0	4.0	4.0	3.7	3.5	3.9	3.0	4.2	47.7
1982....	2.0	3.8	4.1	7.1	3.0	3.0	4.2	3.7	3.1	2.0	1.7	2.5	40.2
1983....	**1.9**	**3.4**	**4.1**	**3.6**	**1.7**	**2.7**	**3.1**	**2.6**	**2.6**	**1.9**	**2.4**	**2.6**	**32.6**
Italy:													
1979....	27.1	23.6	33.9	33.2	34.9	37.0	36.3	44.4	39.9	64.4	53.6	46.4	474.7
1980....	42.9	36.8	48.9	48.6	50.7	32.3	53.8	38.5	54.4	99.6	49.3	52.2	608.0
1981....	49.2	37.3	37.8	46.8	25.2	24.9	33.8	28.7	39.3	64.1	33.2	40.1	460.4
1982....	33.7	35.2	31.4	48.4	20.4	25.0	33.0	30.0	46.9	62.2	30.8	42.4	439.4
1983....	**26.4**	**28.7**	**30.4**	**29.7**	**18.0**	**33.5**	**22.4**	**32.8**	**39.9**	**57.9**	**32.5**	**32.2**	**384.4**
Japan:													
1979....	9.5	8.4	10.2	17.3	25.3	9.1	29.5	31.6	23.8	29.6	29.0	25.7	249.0
1980....	14.2	8.9	16.1	15.5	12.7	20.4	37.9	49.5	42.4	41.1	34.3	36.3	329.3
1981....	17.9	9.3	14.8	16.7	33.6	55.5	83.3	57.1	54.3	45.4	35.8	44.3	468.0
1982....	19.6	7.7	17.2	14.5	27.6	35.4	53.7	52.0	44.8	40.5	41.1	30.6	384.7
1983....	**16.8**	**3.2**	**6.8**	**13.7**	**22.8**	**33.4**	**56.3**	**55.1**	**56.0**	**54.5**	**48.9**	**40.1**	**407.6**
Switzerland:													
1979....	6.1	6.9	11.3	9.6	8.6	4.2	.6	3.6	5.2	6.3	10.0	8.7	81.1
1980....	11.0	11.3	9.5	12.8	10.4	8.7	6.7	8.5	8.9	13.5	11.2	14.9	127.4
1981....	10.7	11.9	9.5	15.1	9.1	6.2	3.5	3.9	4.8	10.3	11.5	14.3	110.8
1982....	12.1	14.8	12.3	13.3	7.1	5.9	2.6	5.2	9.0	8.5	11.1	15.5	117.4
1983....	**10.1**	**12.4**	**14.2**	**10.5**	**7.9**	**5.6**	**1.2**	**4.6**	**5.9**	**6.8**	**9.6**	**9.3**	**98.1**
West Germany:													
1979....	22.3	22.1	30.2	38.4	43.4	44.6	35.6	47.7	37.0	40.9	41.3	29.1	432.6
1980....	24.5	20.5	25.3	29.3	41.0	26.0	23.0	21.0	23.4	24.7	21.4	19.8	299.9
1981....	21.9	16.2	15.9	22.9	11.2	4.1	3.7	3.0	2.7	3.4	8.7	16.3	130.0
1982....	10.8	9.4	7.6	11.3	5.4	5.1	3.9	2.5	2.3	2.1	1.3	3.1	64.8
1983....	**1.6**	**.8**	**1.3**	**2.4**	**1.2**	**1.3**	**.8**	**–**	**0.0**	**1.1**	**1.1**	**.7**	**12.3**
All other:													
1979....	1.2	2.3	2.3	2.8	2.0	.3	.5	.4	.2	.5	.4	.4	13.3
1980....	.5	.5	.3	2.2	1.8	1.6	1.0	.4	.5	2.3	2.9	4.5	18.5
1981....	3.0	3.1	4.1	5.1	3.3	1.8	3.1	2.1	1.7	2.1	2.5	5.4	37.3
1982....	2.6	4.2	4.1	3.6	2.7	2.6	3.5	3.5	3.3	4.1	5.9	10.1	50.2
1983....	**9.2**	**5.0**	**6.5**	**4.5**	**4.6**	**3.2**	**3.5**	**3.0**	**3.4**	**6.5**	**7.2**	**8.2**	**64.8**

– = Negligible.

DENDROBIUM ORCHIDS: Sales and value, 1979-83

Year	Lei flowers		Cut sprays		Potted plants				Total value
					In bud/bloom		Community pots		
	Number sold	Value	Number sold	Value	Number sold	Value	Number sold	Value	
	Million blooms	1,000 dollars	1,000 dozens	1,000 dollars	1,000 pots	1,000 dollars	1,000 pots	1,000 dollars	1,000 dollars
					STATE [1]				
1979...	2.8	73	44	192					[2]
1980...	6.6	175	70	336	227	1,003	42	186	1,700
1981...	8.8	244	83	431	173	569	79	301	1,545
1982...	6.5	179	78	440	160	622	26	155	1,396
1983...	7.6	234	123	774	201	873	28	159	2,040
					OAHU				
1979...	2.8	73	28	132					[2]
1980...	6.4	169	54	274	72	259	42	182	884
1981...	8.5	235	65	354	74	266	71	286	1,141
1982...	5.8	154	60	349	86	280	25	148	931
1983...	6.5	196	90	590	120	465	26	147	1,398

[1] Hawaii, Kauai, and Maui combined with State total to avoid disclosure of individual operations.
[2] Prior to 1980 potted dendrobiums were included in the total potted orchid figures as shown in the "Flowers and Nursery Products Annual Summary".

DENDROBIUM ORCHIDS: Production area [1], 1983 with 1984 intentions

Type of shade	Used in 1983			Intentions for 1984			
	Cut or lei flowers	Potted plants	Total	Cut or lei flowers	Potted plants	Total	Percent of 1983
	1,000 square feet						
	STATE [2]						
Glass or glass substitute	286	136	422				
Saran	1,151	392	1,543				
Natural shade and open field	57	21	78				
Total	1,494	549	2,043	3,476	636	4,112	201
	OAHU						
Glass or glass substitute	146	29	175				
Saran	1,016	315	1,331				
Natural shade and open field	22	21	43				
Total	1,184	365	1,549	3,070	448	3,518	227

[1] Total area devoted to crop. May include area not yet producing.
[2] Hawaii, Kauai, and Maui combined in State total to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS: Percent of cut sprays sold by quarter

Year	January-March	April-June	July-September	October-December
	Percent			
1980....	14	23	34	29
1981....	12	23	37	28
1982....	11	24	38	27
1983....	11	24	32	33

POINSETTIAS: Number of growers, pots sold by size, and value, 1979-83

Year	Growers	Pots sold by size				Value
		4 inches and under	5-6½ inches	All other sizes [1]	Total	
	Number					Dollars
			STATE			
1979.....	24	23,000	[2]97,000	--	120,000	323,000
1980.....	30	25,000	95,000	14,000	134,000	410,000
1981.....	25	20,000	109,500	7,000	136,500	430,000
1982.....	26	30,000	111,000	8,000	149,000	474,000
1983.....	**25**	**21,000**	**120,000**	**9,000**	**150,000**	**513,000**
			OAHU			
1979.....	15	[3]	[3]	[3]	84,000	202,000
1980.....	17	[3]	[3]	[3]	90,000	241,000
1981.....	16	[3]	[3]	[3]	93,000	254,000
1982.....	18	[3]	[3]	[3]	105,000	316,000
1983.....	**17**	[3]	[3]	[3]	**109,000**	**354,000**

-- = Not applicable.
[1] Includes hanging baskets.
[2] Includes all pots over 6 inches.
[3] Not shown separately to avoid disclosure of individual operations.

POINSETTIAS: Percent of flowers grown by type of growing area, 1979-83

Year	Saran	Glass or glass substitute	Open field
1979.....	16	43	41
1980.....	7	49	44
1981.....	28	46	26
1982.....	18	53	29
1983.....	**23**	**44**	**33**

POINSETTIAS: Percent of flowers grown by varieties, 1979-83

Year	C-1	V-10	V-14	Others
1979.....	41	23	11	25
1980.....	26	24	32	18
1981.....	36	33	10	21
1982.....	32	32	12	24
1983.....	**22**	**48**	**12**	**18**

POINSETTIAS: 1983 intentions, with comparisons

Year	Grower intentions spring of year	Pots set [1]	Pots sold
	Number		
1979.....	NA	133,000	120,000
1980.....	160,000	140,000	134,000
1981.....	152,000	161,000	136,500
1982.....	156,000	170,000	149,000
1983.....	**176,000**	**205,000**	**150,000**

NA = Not applicable.
[1] Includes small pots eventually used for hanging baskets and counted as only one pot.

Out-of-State sales of flowers and nursery products, State of Hawaii, 1979-83

Commodity	1979	1980	1981	1982	1983
	1,000 dollars[1]				
Anthuriums, cut	5,696	6,592	6,237	6,370	7,005
Red Ginger	[2]	[2]	[2]	91	145
Protea	207	235	256	475	505
Cattleya Orchids	20	24	52	117	120
Cymbidium Orchids	170	71	98	175	125
Dendrobium Orchids, cut sprays	115	124	162	190	439
Vanda Orchids,[3] blossoms, lei, etc.	104	75	125	[4]	[4]
Potted orchid plants	1,020	1,282	1,319	968	1,531
Cut foliage	344	519	400	410	460
Potted foliage plants	2,675	3,311	5,838	6,912	9,070
Unfinished potted foliage stock	[2]	[2]	[2]	802	1,360
All other flowers and nursery products	1,560	1,849	1,489	1,399	1,240
TOTAL	11,911	14,082	15,976	17,909	22,000

[1] Based on F. O. B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, lei, etc. purchased within the State and hand carried out.
[2] Not shown separately.
[3] Hybrid and Miss Joaquim.
[4] Included in "All Other" category to avoid individual disclosure.

DENDROBIUM ORCHIDS: Out-of-State sales, 1980-83

Year	Cut sprays		Potted plants[1]		Total value
	Number	Value	Number	Value	
	Dozens	Dollars	Pots	Dollars	
1980	18,560	123,800	79,980	380,390	504,190
1981	28,600	162,400	68,600	264,000	426,400
1982	34,000	189,600	57,100	266,500	456,100
1983	59,000	439,000	80,700	431,000	870,000

[1] Includes community pots.

C[illegible]EE: Number of farms, acreage, yield, marketings, price, and value, State of Hawaii, 1979-83 [1]

Year [2]	Farms	Total acreage in crop	Acreage harvested	Yield per harvest acre	Marketings (parchment)	Farm price (parchment)	Value of sales
	Number	1,000 acres		1,000 pounds		Dollars per pound	1,000 dollars
1979-80...	700	2.1	1.8	1.2	2,190	1.43	3,132
1980-81...	650	1.9	1.7	0.9	1,440	1.60	2,304
1981-82...	625	1.8	1.7	1.3	2,210	2.00	4,420
1982-83...	620	2.0	1.9	0.5	990	2.15	2,129
1983-84...	610	2.0	1.8	1.4	2,500	2.12	5,300

[1] State production all on island of Hawaii.
[2] Harvesting normally begins in September and extends to the early part of the following year.

TARO: Number of farms, acreage, marketings, price, and value, by islands, 1979-83

Year	Farms	Acreage in crop [1]	Marketings	Farm price	Value of sales
	Number	Acres	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1979.....	121	405	6,640	16.4	1,089
1980.....	122	320	6,400	20.0	1,280
1981.....	123	340	6,100	21.4	1,305
1982.....	127	350	6,460	22.4	1,447
1983.....	155	370	5,440	22.6	1,229
			HAWAII		
1979.....	41	70	1,220	19.6	239
1980.....	41	30	700	23.1	162
1981.....	40	45	450	23.1	104
1982.....	45	55	880	22.4	197
1983.....	67	65	740	25.0	185
			KAUAI		
1979.....	49	205	4,330	14.8	641
1980.....	50	210	4,550	19.0	865
1981.....	50	210	4,450	21.0	934
1982.....	49	210	4,360	22.3	972
1983.....	54	215	3,450	22.1	762
			MAUI/MOLOKAI/OAHU [2]		
1979.....	31	130	1,090	19.1	209
1980.....	31	80	1,150	22.0	253
1981.....	33	85	1,200	22.3	267
1982.....	33	85	1,220	22.8	278
1983.....	34	90	1,250	22.6	282

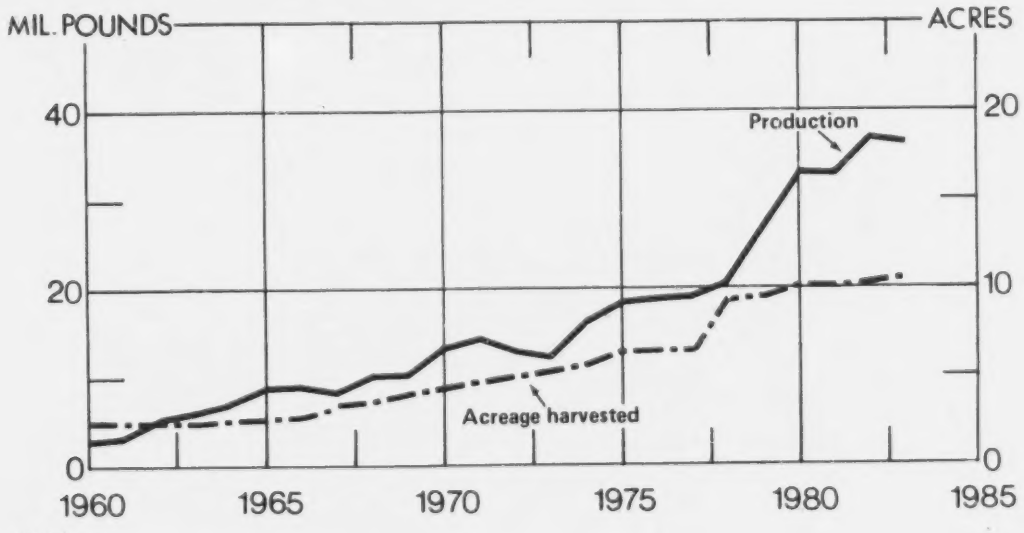
[1] Survey conducted in November each year. Does not include acreage of varieties used primarily for leaf production.
[2] Maui/Molokai and Oahu combined to avoid disclosure of individual operations.

MACADAMIA NUTS: Number of farms, acreage, yield, marketings, price, and value, by islands, 1979-83

Crop year [1]	Farms	Acreage [2]		Yield per acre (bearing)	Marketings (in shell) [3]	Average moisture		Farm price	Value of sales
		In crop	Bearing			Entire crop	Purchases		
	Number	Acres		1,000 pounds		Percent		Cents per pound	1,000 dollars
					STATE [4]				
1979..	465	11,400	9,600	2.8	26,660	21.1	18.7	62.9	16,769
1980..	475	13,300	10,000	3.3	33,390	20.0	20.7	72.4	24,174
1981..	490	13,800	10,000	3.3	33,360	19.8	16.1	79.3	26,454
1982..	550	15,000	10,200	3.6	36,720	20.5	16.3	73.9	27,136
1983..	600	15,800	10,600	3.4	36,420	18.3	18.6	65.7	23,928
					HAWAII				
1979..	460	11,115	9,600	2.8	26,570	NA	NA	62.9	16,712
1980..	470	12,110	9,950	3.2	33,270	NA	NA	72.4	24,071
1981..	485	12,600	9,950	3.3	33,240	NA	NA	79.3	26,355
1982..	545	13,780	10,150	3.6	36,600	NA	NA	73.9	27,047
1983..	555	14,530	10,170	3.6	36,200	NA	NA	65.7	23,783
					KAUAI/MAUI/OAHU [5]				
1979..	5	250	48	1.9	90	NA	NA	62.9	57
1980..	5	1,190	50	2.4	120	NA	NA	86.0	103
1981..	5	1,220	50	2.4	120	NA	NA	82.5	99
1982..	5	1,220	50	2.4	120	NA	NA	74.2	89
1983..	5	1,270	430	.3	220	NA	NA	66.1	145

NA = Not available.
[1] Year ends June 30 of following year.
[2] At end of year.
[3] Includes home use.
[4] Sum of island estimates may not add to State total due to rounding.
[5] Kauai and Maui combined with Oahu to avoid disclosure of individual operations.

MACADAMIA NUTS: Acreage and Production, State of Hawaii, 1960-83



HARS

PINEAPPLES: Number of farms, acreage, production, disposition, price, and value, State of Hawaii, 1979-83

Year	Farms	Acreage used for crop	Production (fresh weight)	Disposition		Farm price		Value of production (fresh weight)
				Processed (fresh weight)	Fresh market [1]	Processed [2]	Fresh market [3]	
	Number	1,000 acres	1,000 tons			Dollars per ton		Thousand dollars
1979...	18	44.0	681	587	94	67	320	69,409
1980...	18	43.0	657	556	101	76	340	76,596
1981...	18	41.0	636	519	117	85	390	89,745
1982...	18	36.0	670	542	128	82	390	94,364
1983...	18	35.0	722	602	120	88	395	100,376

[1] Beginning 1983 excludes sales of fresh pineapple without tops. Included in processing utilization.
[2] Estimate to reflect value of fresh fruit delivered processing plant door.
[3] Estimate to reflect value at wholesale establishments for local sales and shipper dock for Mainland and foreign sales.

PINEAPPLES: Processor production, fresh sales, and value, State of Hawaii, 1979-83

Year	Processor production [1]				Fresh market sales		
	Canned fruit (24/2½-45 lb. cases)	Canned juice (24/2½-42.5 lb. cases)	Frozen concentrate (24/2½-42.5 lb. cases)	Value [2]	Quantity		Value [5]
				Canned fruit and juices	Local [3]	Shipped out-of-State [4]	
	1,000 cases			Million dollars	1,000 tons		Thousand dollars
1979...	7,470	6,010	280	176.3	24.5	69.9	30,080
1980...	6,940	6,410	215	192.2	27.3	73.7	34,340
1981...	6,830	6,320	200	172.0	25.8	91.1	45,590
1982...	NA	NA	NA	156.1	26.5	101.5	49,920
1983...	NA	NA	NA	171.6	17.7	102.3	47,400

[1] Pineapple Growers Association of Hawaii (year beginning June 1 prior to 1979).
[2] Value of canned fruit and juices and byproducts shipped out-of-State and sold within State.
[3] Beginning 1983 excludes sales of fresh pineapple without tops.
[4] Market News Service, Hawaii Department of Agriculture. Includes all destinations.
[5] Value FAS shipping point for outshipments, delivered wholesalers local sales.

PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	1,000 pounds												
1979....	9,489	12,772	15,104	13,164	16,801	13,818	12,718	11,475	5,285	8,968	11,109	7,971	138,674
1980....	9,179	11,748	13,671	14,660	15,386	13,595	13,867	10,655	10,075	12,796	12,338	9,493	147,463
1981....	13,290	12,411	14,706	18,021	16,906	18,978	22,599	10,053	12,512	15,036	13,931	13,662	182,102
1982....	15,491	15,416	21,352	19,654	18,195	21,275	20,062	16,086	16,087	11,917	12,859	14,687	203,081
1983....	15,701	13,419	17,251	16,911	19,142	19,506	19,876	19,685	15,415	16,712	16,619	14,300	204,537

Source of outshipment data: Market News Service, Hawaii Department of Agriculture.

PASSION FRUIT: Number of farms, acreage, quantity processed, price, and value, State of Hawaii, 1979-83

Year	Farms	Cultivated acreage [1]		Quantity processed [2]	Average price	Value of sales [2]
		In crop	Bearing			
	Number	Acres		1,000 pounds	Cents per pound	1,000 dollars
1979...	5	110	45	1,615	8.9	143
1980...	5	75	55	2,400	10.8	259
1981...	4	70	50	1,470	11.1	163
1982...	9	70	60	2,750	12.1	333
1983...	17	80	35	2,040	10.3	210

[1] At end of year.
[2] Includes wild and cultivated production.

GUAVAS: Total processed, farm production, number of farms, acreage, price, and value, State of Hawaii, 1979-83

Year	Total delivered to processors [1]			Farm production					
	Quantity processed	Average price	Value of sales	Farms	Acreage in crop	Acreage harvested	Production	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	Number	Acres		1,000 pounds	Cents per pound	1,000 dollars
					STATE				
1979.....	6,450	9.2	593	105	905	565	4,500	9.4	424
1980.....	9,850	11.0	1,084	108	975	615	7,520	11.5	865
1981.....	7,290	10.8	787	97	935	620	6,520	11.0	717
1982.....	7,140	9.7	693	91	885	585	6,730	9.7	653
1983.....	8,850	8.9	788	117	965	730	7,700	8.8	678
					HAWAII				
1979 [2]....									
1980.....	6,700	11.2	750	93	495	325	5,420	11.7	634
1981.....	3,560	11.0	392	87	450	330	3,530	11.0	388
1982.....	2,130	9.5	202	81	410	225	2,110	9.5	200
1983.....	3,270	8.4	275	103	460	280	3,250	8.4	273
					KAUAI/MAUI/MOLOKAI/OAHU [3]				
1979 [2]....									
1980.....	3,150	10.6	334	15	480	290	2,100	11.0	231
1981.....	3,730	10.6	395	10	485	290	2,990	11.0	329
1982.....	5,010	9.8	491	10	475	360	4,620	9.8	453
1983.....	5,580	9.2	513	14	505	450	4,450	9.1	405

[1] Fruit allocated to island of production not island where processed. Includes wild and cultivated production.
[2] Not published separately because of disclosure of individual operations.
[3] Kauai/Maui/Molokai/Oahu combined to avoid disclosure of individual operations.

GUAVAS: Quantity, price, and value, State of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total [1]	Average Price [2]	Value
	1,000 pounds													Cents per lb.	1,000 dollars
1979...	183	217	150	166	269	290	160	1,045	2,327	1,061	290	292	6,450	9.2	593
1980...	325	204	263	756	408	449	963	2,091	2,333	1,558	341	159	9,850	11.0	1,084
1981...	222	263	389	671	791	398	617	1,012	1,355	805	607	160	7,290	10.8	787
1982...	490	1,010	160	465	210	385	575	990	1,175	860	485	335	7,140	9.7	693
1983...	260	180	135	170	105	70	825	1,135	1,450	2,270	1,530	720	8,850	8.9	788

[1] Sum of monthly estimates may not add to annual total due to rounding.
[2] Equivalent F. O. B. plant, island of production. Prices for guavas are averages for wild and cultivated fruit.

BANANAS: Number of farms, acreage, yield, production, price, and value, by islands, 1979-83

Year	Farms	Acreage		Yield per acre (harvested)	Production	Farm price	Value of sales
		In crop[1]	Harvested				
	Number	Acres		1,000 pounds		Cents per pound	1,000 dollars
				STATE[2]			
1979...	148	690	630	8.8	5,550	20.5	1,138
1980...	159	730	580	7.9	4,600	23.9	1,099
1981...	152	760	650	9.2	6,000	25.7	1,542
1982...	179	940	720	8.0	5,750	28.6	1,645
1983...	183	1,100	860	5.2	4,470	31.2	1,395
				HAWAII			
1979...	19	140	120	11.5	1,400	17.8	249
1980...	25	160	105	14.9	1,560	18.9	295
1981...	17	140	130	16.1	2,090	20.0	418
1982...	29	200	130	19.3	2,510	23.1	580
1983...	31	365	205	12.6	2,580	26.4	681
				KAUAI			
1979...	23	60	45	12.1	600	17.2	103
1980...	24	70	45	17.1	770	21.6	166
1981...	26	75	60	16.7	1,000	23.4	234
1982...	32	110	50	19.1	954	29.1	278
1983...	33	115	95	4.9	470	31.0	146
				MAUI/MOLOKAI			
1979...	13	30	20	4.0	120	21.2	25
1980...	12	30	25	7.6	190	24.7	47
1981...	15	55	35	5.7	200	24.8	50
1982...	18	90	70	3.4	241	26.8	65
1983...	21	80	65	4.6	300	25.8	77
				OAHU			
1979...	93	460	445	6.1	3,430	22.2	761
1980...	98	470	405	5.1	2,080	28.4	591
1981...	94	490	425	6.4	2,710	31.0	840
1982...	100	540	470	4.4	2,045	35.3	722
1983...	98	540	495	2.3	1,120	43.8	491

[1] As of February following year, i.e. acreage data shown for 1983 is as of February 1, 1984.
[2] Island totals may not add to State totals due to rounding.

BANANAS: Acreage by variety, State of Hawaii, February 1, 1984

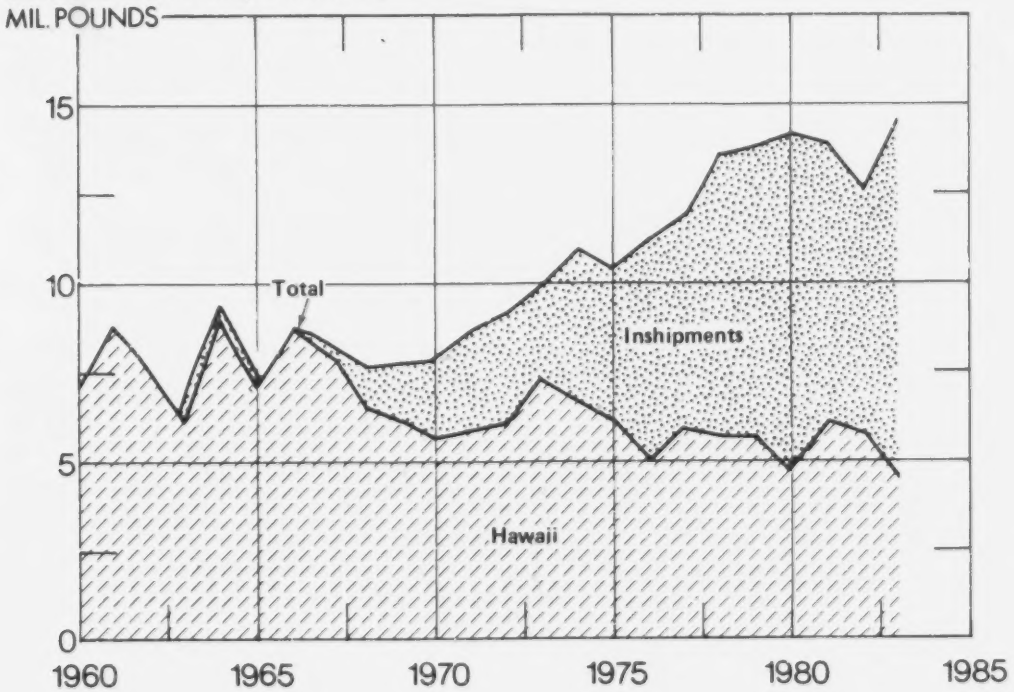
Island	Variety					
	Brazilian (Apple)	Bluefields (Gros Michel)	Cavendish			Others[2]
			Chinese	Williams Hybrid	Robusta[1]	
Hawaii....	15	20	*	225	100	5
Kauai.....	20	20	*	75	0	0
Maui/ Molokai..	25	40	5	5	5	*
Oahu.....	365	*	45	120	5	5
Total...	425	80	50	420	110	10

* = Less than 5 acres. [1] Includes Taiwan. [2] Includes cooking and Lady Finger.

BANANAS: Monthly production, total acreage in crop, and total acreage harvested, by varieties, and price, State of Hawaii, 1979-83

Year	Production													Acreage	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested
	1,000 pounds													Acres	
BRAZILIAN (APPLE)															
1979. . .	203	153	156	151	133	131	136	154	172	162	159	140	1,850	305	290
1980. . .	139	86	119	103	63	61	81	102	122	125	127	142	1,270	300	280
1981. . .	127	156	193	146	104	106	116	118	142	164	130	128	1,630	340	305
1982. . .	104	115	107	93	91	80	95	131	159	131	172	101	1,379	415	345
1983. . .	**44**	**30**	**25**	**24**	**21**	**23**	**29**	**43**	**49**	**62**	**80**	**110**	**540**	**425**	**380**
BLUEFIELDS (GROS MICHEL)															
1979. . .	32	28	20	23	26	23	32	38	50	65	55	48	440	75	65
1980. . .	52	35	28	21	17	18	34	41	40	58	47	49	440	80	55
1981. . .	44	39	36	40	41	44	49	56	60	60	54	57	580	60	50
1982. . .	34	32	29	30	29	36	36	43	64	60	54	37	484	65	55
1983. . .	**30**	**25**	**26**	**27**	**24**	**27**	**27**	**24**	**26**	**29**	**35**	**40**	**340**	**80**	**60**
CAVENDISH (CHINESE, ROBUSTA, AND WILLIAMS HYBRID)															
1979. . .	322	247	240	210	236	255	302	318	287	301	270	272	3,260	310	275
1980. . .	271	203	169	163	134	155	252	258	255	315	307	408	2,890	345	240
1981. . .	428	351	323	220	252	283	288	277	292	373	349	354	3,790	355	290
1982. . .	303	293	274	251	274	289	319	348	402	423	386	325	3,887	450	315
1983. . .	**323**	**324**	**299**	**204**	**147**	**172**	**232**	**317**	**272**	**318**	**452**	**530**	**3,590**	**585**	**415**
FARM PRICE FOR FRESH MARKET															
	Cents per pound														
1979. . .	19.5	19.9	20.1	20.1	20.2	20.4	20.0	20.1	21.6	21.2	21.7	21.5	20.5		
1980. . .	22.3	24.1	25.9	24.9	24.4	24.5	24.0	24.4	23.8	23.4	23.8	22.9	23.9		
1981. . .	23.8	25.2	26.4	26.7	25.2	26.4	26.3	26.7	25.9	25.5	25.4	25.5	25.7		
1982. . .	25.2	26.5	27.0	27.0	26.2	26.2	28.1	30.5	30.3	30.0	31.6	30.5	28.6		
1983. . .	**29.8**	**28.4**	**27.7**	**28.7**	**28.6**	**29.8**	**31.9**	**33.8**	**33.5**	**32.9**	**32.3**	**32.7**	**31.2**		

MARKET SUPPLY: Fresh Market Bananas, State of Hawaii, 1960-83



HARS

PAPAYAS: Number of farms, acreage, yield, utilization, price, and value, by islands, 1979-83 [1]

Year	Farms [2]	Acreage harvested [2]	Yield per acre [3]	Utilized production	Utilization		Price per pound			Value of utilized production
					Fresh	Processed	Fresh	Processed [4]	All	
	Number	Acres	1,000 pounds				Cents			1,000 dollars
					STATE					
1979...	194	2,210	18.6	41,015	36,446	4,569	25.6	4.0	23.2	9,515
1980...	197	1,950	25.1	48,916	45,360	3,556	21.7	3.4	20.4	9,964
1981...	211	2,110	31.5	66,390	58,170	8,220	20.8	3.1	18.7	12,413
1982...	214	2,170	24.3	52,750	44,770	7,980	25.1	3.1	21.8	11,484
1983...	227	2,120	29.0	61,400	46,300	15,100	23.6	4.4	18.9	11,591
					HAWAII					
1979...	112	1,820	16.8	30,565	27,129	3,436	24.2		21.9	6,680
1980...	108	1,665	24.5	41,255	37,947	3,308	21.1		19.7	8,127
1981...	116	1,785	32.1	57,320	49,135	8,185	20.4		18.7	10,278
1982...	123	1,950	24.6	47,900	39,940	7,960	24.8		21.2	10,152
1983...	140	2,005	29.4	59,040	44,050	14,990	23.3		18.5	10,912
					KAUAI					
1979...	32	160	35.4	5,672	5,413	259	[5]27.8		[5]25.4	[5]2,422
1980...	37	200	30.5	6,096	5,967	129	[5]20.8		[5]20.5	[5]1,286
1981...	42	245	29.4	7,204	7,169	35	[5]21.2		[5]21.5	[5]1,567
1982...	42	130	24.8	3,220	3,200	20	[5]23.8		[5]23.7	[5]889
1983...	41	25	31.8	795	780	15	[5]25.3		[5]25.1	[5]350
					MAUI/MOLOKAI					
1979...	7	165	23.4	3,866	3,035	831	[5]		[5]	[5]
1980...	4	10	17.6	176	176	0	[5]		[5]	[5]
1981...	4	10	21.3	213	213	0	[5]		[5]	[5]
1982...	4	20	26.5	530	530	0	[5]		[5]	[5]
1983...	5	25	24.0	600	600	0	[5]		[5]	[5]
					OAHU					
1979...	43	65	14.0	912	869	43	46.7		44.7	408
1980...	48	75	18.5	1,389	1,270	119	44.7		41.1	571
1981...	49	70	23.6	1,653	1,653	0	33.8		33.8	559
1982...	45	70	15.7	1,100	1,100	0	39.7		39.7	437
1983...	41	70	13.8	965	870	95	37.0		34.1	329

[1] Sum of island estimates may not add to State total due to rounding.
[2] Average of monthly estimates.
[3] Utilized production divided by acreage harvested.
[4] Island data not shown separately to avoid disclosure of individual operations.
[5] Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

PAPAYAS: Acreage, production, price, and outshipments, State of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Area harvested -- Acres[1]												
1979...	2,265	2,335	2,360	2,340	2,305	2,370	2,390	2,265	2,245	1,910	1,885	1,885	2,210
1980...	1,785	1,915	1,935	2,005	2,040	2,050	1,905	1,930	1,930	1,945	1,985	2,005	1,960
1981...	2,105	1,975	1,960	2,040	2,045	2,060	2,150	2,140	2,150	2,240	2,235	2,235	2,110
1982...	2,255	2,280	2,285	2,170	2,160	2,125	2,070	2,130	2,115	2,130	2,140	2,190	2,170
1983...	**2,025**	**2,050**	**2,035**	**2,095**	**2,090**	**2,070**	**2,095**	**2,095**	**2,095**	**2,220**	**2,195**	**2,375**	**2,120**
	Utilization (fresh and processed) -- 1,000 pounds												
1979...	3,715	2,493	2,320	2,561	2,796	3,666	3,166	3,268	3,514	4,761	4,732	4,023	41,015
1980...	3,389	2,385	2,116	3,043	4,278	4,508	4,527	3,722	5,218	5,665	4,555	5,510	48,916
1981...	4,626	4,532	5,607	5,853	5,671	6,893	5,848	5,075	6,405	5,973	5,335	4,572	66,390
1982...	4,151	4,369	4,852	4,397	4,114	4,346	4,320	4,049	4,005	4,615	4,499	5,033	52,750
1983...	**4,701**	**3,341**	**2,607**	**2,991**	**6,019**	**5,820**	**6,616**	**5,310**	**2,732**	**4,987**	**8,556**	**7,720**	**61,400**
	Total fresh papaya utilization -- 1,000 pounds												
1979...	3,491	2,373	2,238	2,416	2,698	3,452	2,895	2,876	2,762	3,931	3,884	3,430	36,446
1980...	2,730	2,163	1,921	2,810	4,090	4,012	4,016	3,497	5,009	5,301	4,504	5,307	45,360
1981...	4,258	4,075	4,920	5,210	4,950	5,961	5,348	4,300	5,854	4,922	4,800	3,572	58,170
1982...	3,379	3,716	4,515	3,993	3,534	3,650	3,699	3,284	3,406	3,877	3,654	4,063	44,770
1983...	**3,565**	**2,806**	**2,226**	**2,533**	**4,744**	**4,702**	**4,518**	**3,447**	**2,070**	**3,897**	**6,124**	**5,668**	**46,300**
	Intrastate fresh papaya utilization -- 1,000 pounds												
1979...	1,032	779	903	878	937	882	787	731	681	935	837	807	10,189
1980...	781	739	592	811	1,071	1,062	1,004	952	1,331	1,203	1,203	1,276	12,025
1981...	1,107	1,089	1,258	1,187	1,043	1,232	984	788	1,056	1,241	1,160	878	13,023
1982...	825	1,161	1,105	840	811	830	914	928	881	1,021	984	1,160	11,460
1983...	**995**	**793**	**565**	**650**	**840**	**875**	**863**	**847**	**473**	**964**	**1,463**	**1,332**	**10,660**
	Outshipments of fresh papayas -- 1,000 pounds												
1979...	2,459	1,594	1,335	1,538	1,761	2,570	2,108	2,145	2,081	2,996	3,047	2,623	26,257
1980...	1,949	1,424	1,329	1,999	3,019	2,950	3,012	2,545	3,678	4,098	3,301	4,031	33,335
1981...	3,151	2,986	3,662	4,023	3,907	4,729	4,364	3,512	4,798	3,681	3,640	2,694	45,147
1982...	2,554	2,555	3,410	3,153	2,723	2,820	2,785	2,356	2,525	2,856	2,670	2,903	33,310
1983...	**2,570**	**2,013**	**1,661**	**1,883**	**3,904**	**3,827**	**3,655**	**2,600**	**1,597**	**2,933**	**4,661**	**4,336**	**35,640**
	Farm price for fresh market sales (to all markets) -- Cents per pound												
1979...	19.2	24.5	35.5	34.5	34.7	28.5	21.1	30.3	24.5	24.7	18.1	20.4	25.6
1980...	25.2	32.8	37.4	38.1	25.7	24.5	20.2	20.9	17.1	13.6	16.3	14.6	21.7
1981...	17.6	25.1	25.1	23.8	23.8	24.7	21.0	24.1	20.7	13.2	13.6	15.5	20.8
1982...	20.4	24.7	22.3	23.9	29.8	37.5	32.2	25.3	25.7	20.4	21.9	19.0	25.1
1983...	**20.7**	**31.1**	**41.0**	**54.9**	**38.7**	**17.2**	**20.7**	**15.7**	**31.0**	**27.3**	**11.5**	**8.2**	**23.6**

[1] Total is average of monthly data.

AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Farms	Acreage [1]		Yield per acre (bearing)	Production	Farm price	Value of sales
		In crop	Bearing				
	Number	Acres		1,000 pounds		Cents per pound	1,000 dollars
1979...	142	340	165	7.7	1,270	26.6	338
1980...	145	350	200	7.6	1,510	24.5	370
1981...	155	370	200	6.0	1,200	26.4	317
1982...	160	440	240	6.7	1,600	22.5	360
1983...	160	490	250	4.7	1,170	26.1	305

[1] At end of year.

ORANGES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Farms	Acreage bearing [1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979...	32	37	5.4	200	18.1	36
1980...	28	30	4.7	140	18.1	25
1981...	24	98	2.2	220	21.8	48
1982...	23	120	2.9	350	25.0	88
1983...	15	105	5.6	590	20.8	123

[1] At end of year.

TANGERINES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Farms	Acreage bearing [1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979...	29	30	5.0	150	22.9	34
1980...	22	28	3.6	100	23.3	23
1981...	20	28	3.6	100	29.3	29
1982...	20	25	4.4	110	26.0	29
1983...	12	20	3.5	70	29.3	21

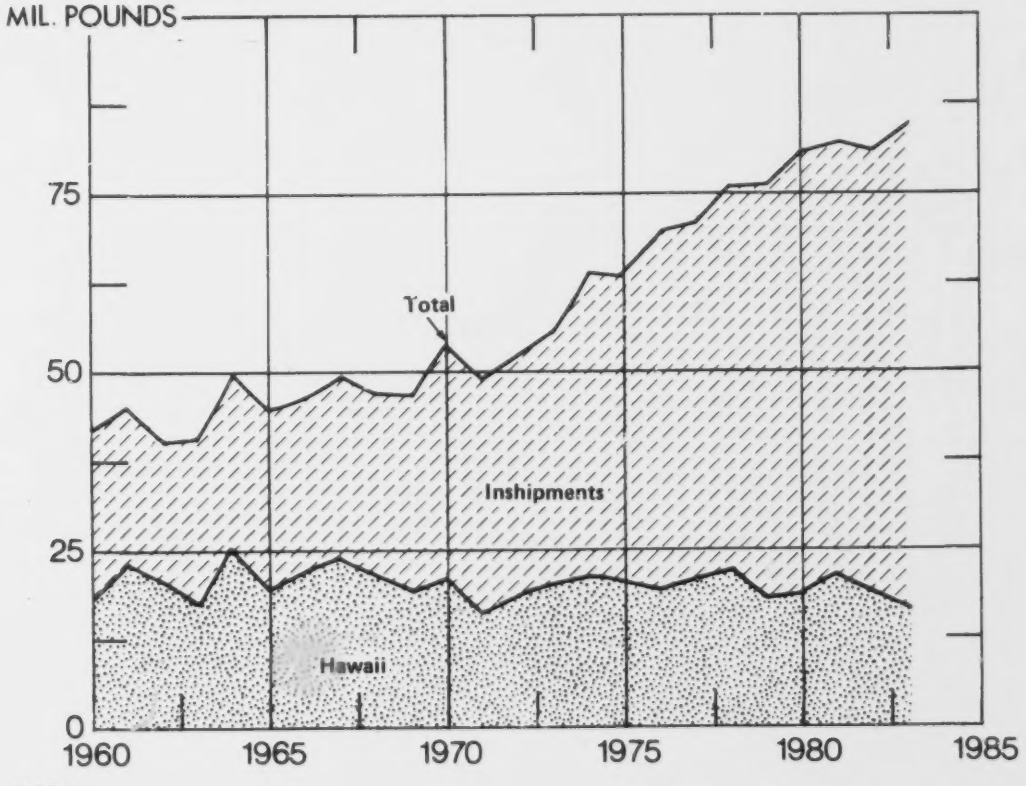
[1] At end of year.

MARKET SUPPLY: Fresh market fruits, State of Hawaii, 1979-83 [1]

Commodity		1979	1980	1981	1982	1983
		1,000 pounds				
Apples:	Inshipments	13,044	12,700	12,878	11,977	13,123
Avocados:	Inshipments	379	283	559	439	634
	Hawaii	1,270	1,510	1,200	1,600	1,170
Bananas:	Inshipments	8,205	9,528	7,910	6,916	10,027
	Hawaii	5,550	4,600	6,000	5,750	4,470
Grapefruit:	inshipments	2,829	3,145	2,757	2,997	2,971
Grapes:	Inshipments	4,054	4,208	4,459	5,599	5,516
Lemons:	Inshipments	3,025	2,771	3,065	3,030	3,046
Nectarines:	Inshipments	1,732	1,744	1,739	1,893	1,830
Oranges:	Inshipments	15,089	18,987	17,748	18,096	18,013
	Hawaii	200	140	220	350	590
Papayas:	Hawaii [2]	10,189	12,025	13,023	11,460	10,658
Pears:	Inshipments	2,777	2,581	3,072	3,741	3,657
Tangerines:	Inshipments	1,125	1,169	762	592	1,519
	Hawaii	150	100	100	110	70
All other fruits:	Inshipments	4,839	4,376	4,911	4,373	5,135
	Hawaii	350	285	340	370	310
Unspecified fruits:	Inshipments	[3]1,197	[3]434	[3]1,696	[3]2,072	[3]1,805
Total:	Inshipments	58,295	61,926	61,556	61,725	67,276
	Hawaii	17,709	18,660	20,883	19,640	17,268
	All	76,004	80,586	82,439	81,365	84,544

[1] Excludes pineapples, guavas, papayas, and passion fruit used for processing, and quantities shipped out-of-State. [2] Fresh intrastate sales only. Excludes mainland and foreign fresh sales. [3] Proration of shipments of unspecified mixed fruits destined for outlying islands.
Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Fruits, State of Hawaii, 1960-83



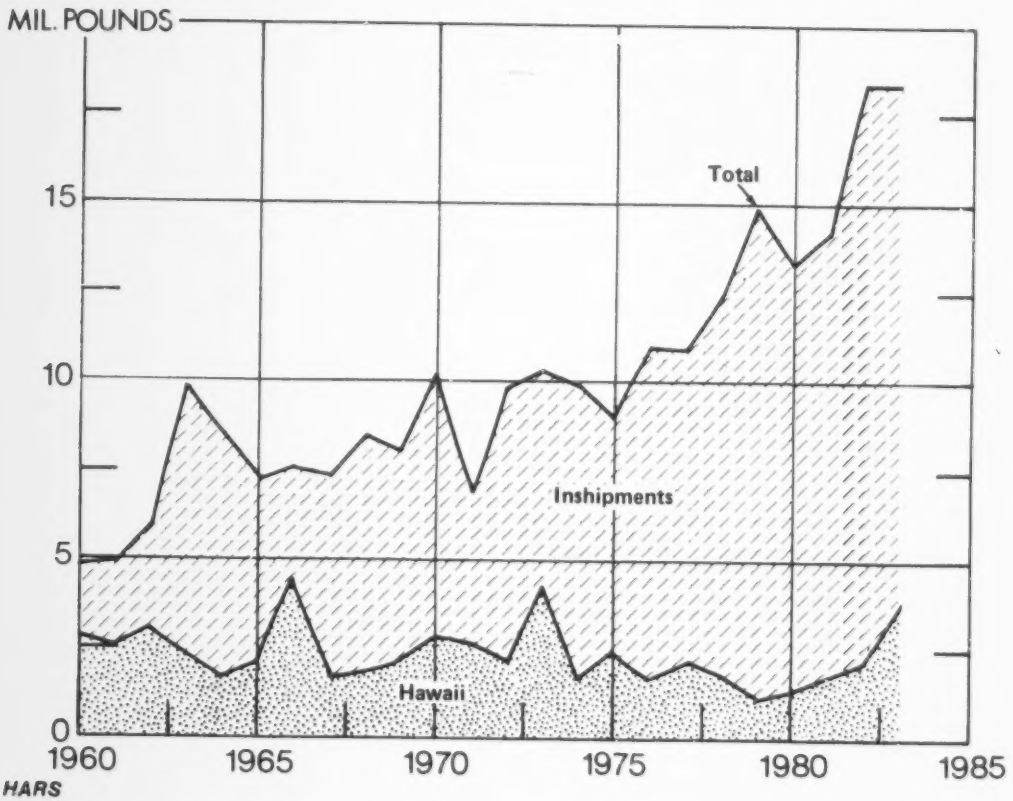
HARS

MARKET SUPPLY: Fresh market melons, State of Hawaii, 1979-83

Commodity	1979	1980	1981	1982	1983
	1,000 pounds				
Cantaloupes: Inshipments	4,355	3,563	3,703	4,161	4,717
Hawaii	--	--	--	[1]	[1]
Honeydew melons: Inshipments	3,043	2,550	2,727	3,048	3,181
Hawaii	--	--	--	[1]	[1]
Watermelons: Inshipments	5,773	5,362	5,393	7,960	5,910
Hawaii	1,130	1,350	1,610	2,200	3,860
Other melons: Inshipments	380	324	351	416	329
Hawaii	--	--	--	25	10
Unspecified melons: Inshipments	263	95	371	[2]453	395
Total: Inshipments	13,814	11,894	12,545	16,038	14,532
Hawaii	1,130	1,350	1,610	2,225	3,870
All	14,944	13,244	14,155	18,263	18,402

-- = Negligible.
[1] Data included with other melons.
[2] Proration of shipments of unspecified mixed melons destined for outlying islands.
Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Melons, State of Hawaii, 1960-83



MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1979-83

Commodity	1979	1980	1981	1982	1983
	1,000 pounds				
Beans, snap: Inshipments	275	292	183	235	111
Hawaii	1,400	1,100	1,300	995	1,360
Bittermelon: Inshipments	8	1	1	7	1
Hawaii	320	220	290	185	260
Broccoli: Inshipments	2,812	3,092	3,130	3,694	3,620
Hawaii	360	370	500	570	680
Burdock: Inshipments	0	0	0	0	3
Hawaii	580	570	640	560	790
Cabbage, Chinese: Inshipments	613	360	300	193	5
Hawaii [1]	[2]5,020	[2]5,360	[2]4,970	[2]6,120	7,100
Cabbage, head: Inshipments	627	646	1,035	596	69
Hawaii	13,500	13,600	12,800	13,800	15,000
Cabbage, mustard: Inshipments	42	64	104	76	42
Hawaii	1,250	1,330	1,520	1,170	1,650
Carrots: Inshipments	7,354	7,716	7,571	8,301	8,304
Hawaii	290	310	230	190	150
Cauliflower: Inshipments	817	961	1,058	1,190	1,214
Hawaii	490	420	450	350	375
Celery: Inshipments	5,047	4,852	4,852	4,840	3,882
Hawaii	2,650	2,880	2,820	3,150	3,960
Corn, sweet: Inshipments	0	0	16	369	251
Hawaii	1,510	950	1,050	560	880
Cucumbers: Inshipments	1,399	1,360	1,544	2,094	1,550
Hawaii	4,700	4,600	5,000	4,350	5,200
Daikon: Inshipments	0	0	0	6	1
Hawaii [1]	2,250	2,340	1,990	2,140	2,400
Dasheen: Inshipments	0	0	12	6	4
Hawaii	250	340	200	330	450
Eggplant: Inshipments	193	143	81	263	139
Hawaii	1,570	1,540	1,580	1,130	1,480
Ginger root: Inshipments	170	376	480	490	173
Hawaii	1,860	1,610	2,860	3,630	5,140
Lettuce: Inshipments	14,112	13,687	12,584	13,956	11,573
Hawaii	9,400	9,900	10,200	9,400	12,300
Lotus root: Inshipments					4
Hawaii	210	190	180	200	185
Onions, dry: Inshipments	12,753	13,020	12,186	14,051	13,260
Hawaii	1,190	1,150	1,980	1,350	2,280
Onions, green: Inshipments	520	585	509	564	207
Hawaii	1,135	900	740	800	1,090
Parsley, American: Inshipments	44	17	20	136	37
Hawaii	170	250	280	260	330
Peas, Chinese: Inshipments	83	189	156	199	279
Hawaii	100	70	70	50	80
Peppers, green: Inshipments	1,757	1,913	1,683	2,020	1,789
Hawaii	890	620	760	820	1,190
Potatoes: Inshipments [3]	36,136	36,527	36,648	39,292	37,653
Hawaii	--	--	--	--	--
Pumpkins: Inshipments	189	227	295	342	500
Hawaii	300	295	330	310	340
Radish: Inshipments	8	1	7	22	10
Hawaii	360	295	240	270	330
Romaine: Inshipments	714	746	617	965	742
Hawaii	2,270	2,170	2,320	2,130	2,620

See footnotes at end of table.

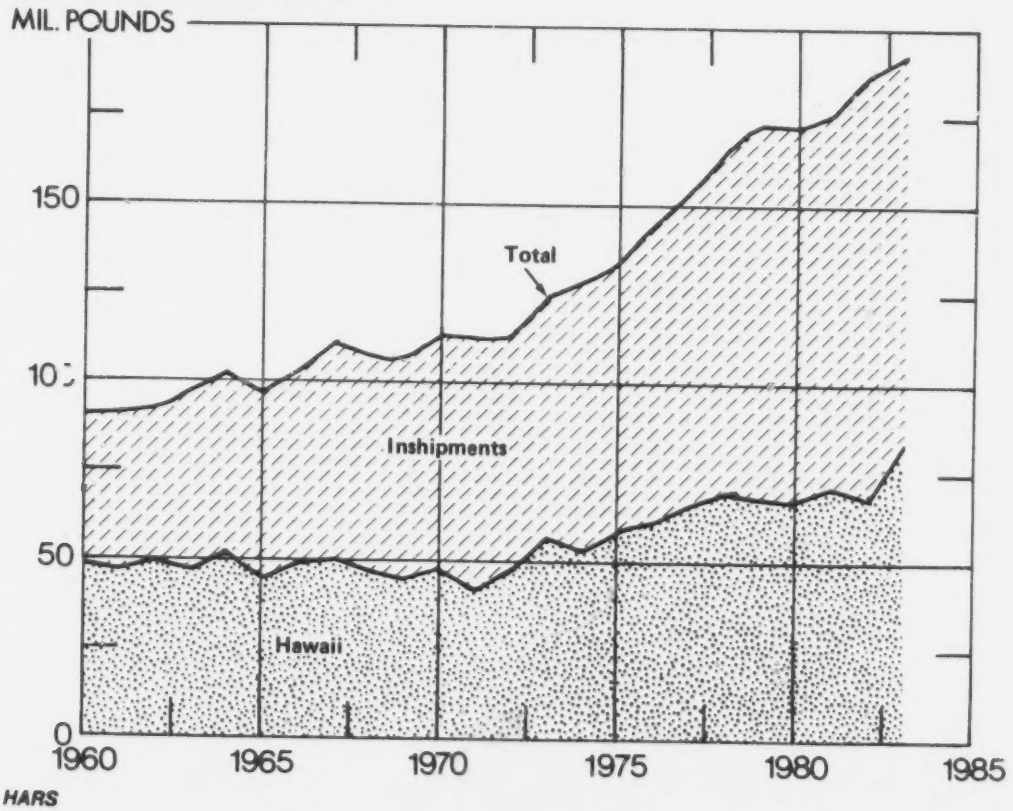
Continued

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1979-83 -- Continued

Commodity		1979	1980	1981	1982	1983
		1,000 pounds				
Squash, Italian:	Inshipments	1,198	1,221	1,203	1,685	1,327
	Hawaii	220	300	540	390	740
Squash, Oriental:	Inshipments	92	4	14	70	69
	Hawaii	780	730	770	445	555
Sweetpotatoes:	Inshipments	601	767	604	616	633
	Hawaii	1,740	1,300	1,250	1,530	1,860
Taro:	Inshipments	586	375	905	980	793
	Hawaii[1]	415	520	215	307	346
Tomatoes:	Inshipments	8,442	8,114	6,744	8,454	8,195
	Hawaii	6,200	7,700	8,300	7,800	8,700
Watercress:	Inshipments	0	0	177	130	8
	Hawaii	1,670	1,420	1,130	850	1,300
All other vegetables:	Inshipments	6,856	7,331	7,101	7,573	7,428
	Hawaii	1,855	1,960	2,010	2,060	2,460
Unspecified vegetables:	Inshipments	[4]2,293	[4]827	[4]3,232	[4]3,951	[4]3,440
Total:	Inshipments	105,741	105,414	105,052	117,366	107,316
	Hawaii	66,905	67,310	69,515	68,202	83,581
	All	172,646	172,724	174,567	185,568	190,897

– = Negligible. [1] Fresh market only. [2] Revised. [3] For processing and fresh market. (Potato production for Hawaii included with all other vegetables for Hawaii to avoid disclosure.) [4] Proration of shipments of unspecified mixed vegetables destined for outlying islands.
Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 1960-83



HARS

SNAP BEANS: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1979...	210	6.5	1,400	66.9	937
1980...	130	8.5	1,100	73.8	812
1981...	130	10.0	1,300	76.1	989
1982...	130	7.7	995	80.0	796
1983...	**185**	**7.4**	**1,360**	**62.8**	**854**
			HAWAII/KAUAI[2]		
1979...	30	7.7	230	54.6	126
1980...	20	10.5	210	61.1	128
1981...	20	11.5	230	64.8	149
1982...	20	9.0	180	73.0	131
1983...	**30**	**6.0**	**180**	**64.9**	**117**
			MAUI/MOLOKAI		
1979...	90	6.6	590	66.0	389
1980...	85	7.4	630	78.4	494
1981...	80	8.2	660	79.0	521
1982...	80	7.0	560	79.3	444
1983...	**105**	**7.3**	**770**	**60.3**	**464**
			OAHU		
1979...	90	6.4	580	72.8	422
1980...	25	10.4	260	72.9	190
1981...	30	13.7	410	77.8	319
1982...	30	8.5	255	86.5	221
1983...	**50**	**8.2**	**410**	**66.7**	**273**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested[1]					Production[2]					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	17	10	15	15	**17**	74	46	87	63	**91**	68.6	76.8	85.9	89.5	**87.1**
February	17	12	15	14	**18**	70	71	88	73	**98**	73.1	73.8	87.0	91.7	**64.8**
March	19	9	16	12	**23**	130	90	101	77	**110**	68.8	74.6	90.4	89.7	**52.7**
April	22	14	18	17	**17**	144	93	135	119	**98**	61.8	74.3	69.1	87.1	**62.6**
May	26	14	20	17	**19**	151	114	112	107	**129**	57.0	72.0	75.8	76.8	**59.5**
June	25	13	20	19	**22**	118	100	101	115	**147**	62.1	74.5	64.1	76.4	**49.1**
July	26	13	19	18	**18**	141	104	116	107	**109**	71.0	73.9	71.3	69.4	**57.7**
August	22	14	17	16	**18**	141	117	117	77	**122**	62.5	72.8	72.8	71.8	**60.6**
September	24	13	17	15	**16**	152	88	111	77	**121**	66.3	71.6	69.0	75.4	**63.8**
October	20	12	15	15	**14**	107	96	118	77	**92**	67.7	72.1	75.0	75.5	**68.9**
November	18	15	14	16	**17**	98	102	116	58	**116**	70.1	75.0	76.9	77.7	**69.0**
December	17	13	13	14	**19**	85	79	98	45	**127**	88.0	76.2	83.3	86.5	**67.9**
Total or average	210	130	130	130	**185**	1,400	1,100	1,300	995	**1,360**	66.9	73.8	76.1	80.0	**62.8**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

BROCCOLI: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979..	40	9.0	360	32.8	118
1980..	40	9.2	370	33.2	123
1981..	45	11.1	500	33.3	167
1982..	52	11.0	570	35.5	202
1983..	70	9.7	680	36.6	249

BURDOCK: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979..	35	16.6	580	49.5	287
1980..	35	16.3	570	56.9	324
1981..	35	18.3	640	57.2	366
1982..	30	18.7	560	53.7	301
1983..	50	15.8	790	65.0	514

CARROTS: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979..	25	11.6	290	19.7	57
1980..	25	12.4	310	19.9	62
1981..	15	15.3	230	23.4	54
1982..	13	14.6	190	23.9	45
1983..	12	12.5	150	22.5	34

CAULIFLOWER: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979..	33	14.8	490	27.6	135
1980..	30	14.0	420	30.0	126
1981..	30	15.0	450	27.2	122
1982..	25	14.0	350	30.5	107
1983..	25	15.0	375	36.0	135

CHINESE CABBAGE: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	335	19.7	6,600	15.2	1,003
1980...	350	19.7	6,900	14.5	1,001
1981...	310	21.6	6,700	14.5	972
1982...	330	23.7	7,820	14.5	1,134
1983...	**370**	**23.6**	**8,750**	**10.8**	**945**
			HAWAII		
1979...	290	19.9	5,760	15.1	870
1980...	315	20.0	6,300	14.3	901
1981...	280	22.1	6,180	14.3	884
1982...	310	24.1	7,480	14.4	1,077
1983...	**355**	**23.9**	**8,490**	**10.7**	**908**
			KAUAI/MAUI/OAHU [2]		
1979...	45	18.7	840	15.8	133
1980...	35	17.1	600	16.6	100
1981...	30	17.3	520	16.9	88
1982...	20	17.0	340	16.7	57
1983...	**15**	**17.3**	**260**	**14.4**	**37**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai and Oahu combined with Maui to avoid disclosure of individual operations.

CHINESE CABBAGE: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Processing and fresh market: Production					Processing and fresh market: Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	26	29	32	25	**31**	438	519	620	671	**581**	[2]15.0	[2]18.2	12.7	14.7	**11.2**
February	27	26	31	25	**32**	389	555	552	635	**711**	17.3	15.8	13.9	16.2	**11.1**
March	30	40	29	27	**39**	[2]639	694	644	841	**1,146**	21.8	[2]13.9	[2]14.6	15.6	**10.3**
April	40	30	34	33	**36**	[2]1,042	587	725	928	**1,132**	17.0	13.1	[2]12.4	14.9	**12.6**
May	31	30	28	31	**23**	658	586	642	767	**698**	11.7	14.1	[2]11.6	13.2	**15.4**
June	23	33	25	32	**29**	540	525	507	589	**601**	11.3	13.7	10.2	11.1	**11.9**
July	27	28	21	23	**25**	429	610	460	445	**654**	12.8	12.6	15.2	13.6	**9.5**
August	27	27	19	25	**30**	524	507	341	480	**674**	16.1	12.9	[2]19.2	18.5	**10.0**
September	26	27	18	23	**32**	451	570	385	497	**662**	[2]12.1	16.1	[2]21.1	17.1	**9.5**
October	26	24	20	28	**28**	554	531	619	686	**616**	12.6	14.8	19.4	15.1	**9.1**
November	28	27	26	28	**33**	427	502	550	624	**646**	15.5	[2]14.9	[2]13.9	12.2	**8.1**
December	27	29	27	30	**32**	459	714	655	657	**629**	[2]17.3	[2]14.8	13.9	12.0	**9.0**
Total or average	335	350	310	330	**370**	6,600	6,900	6,700	7,820	**8,750**	15.2	14.5	14.5	14.5	**10.8**

[1] Sum of monthly estimates may not add to annual total due to rounding.
[2] Revised.

PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price, and value, State of Hawaii, 1979-83

Year	Chinese cabbage			Daikon		
	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	1,000 pounds	Cents per pound	1,000 dollars
1979...	1/1,580	15.1	239	1,010	7.7	78
1980...	1/1,540	14.7	226	1,030	8.6	89
1981...	1/1,730	14.8	256	690	10.3	71
1982...	1/1,700	14.4	245	920	10.4	96
1983...	1,650	11.5	190	740	10.6	78

1/ Revised.

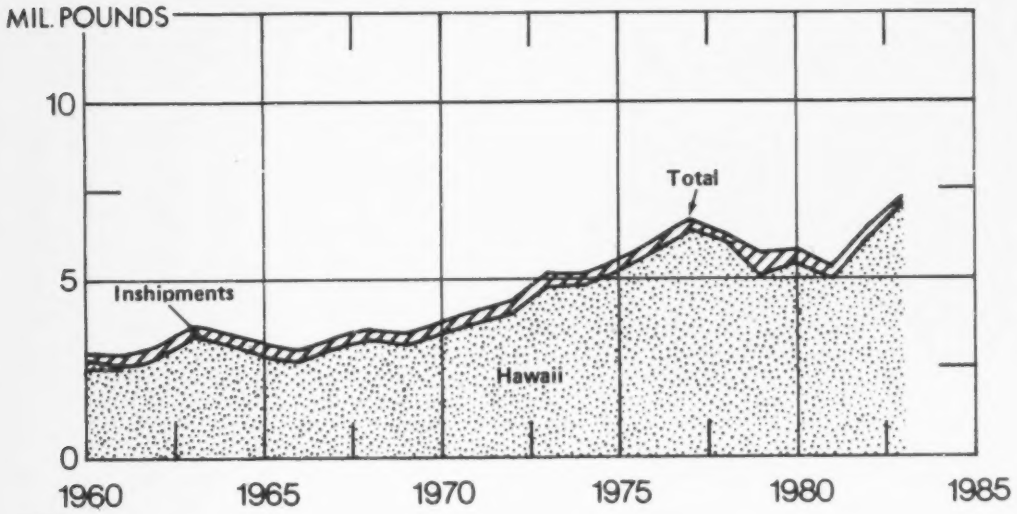
MUSTARD CABBAGE: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979...	120	10.4	1,250	29.0	363
1980...	100	13.3	1,330	30.3	403
1981...	125	12.2	1,520	28.3	430
1982...	120	9.8	1,170	35.7	418
1983...	170	9.7	1,650	30.5	503

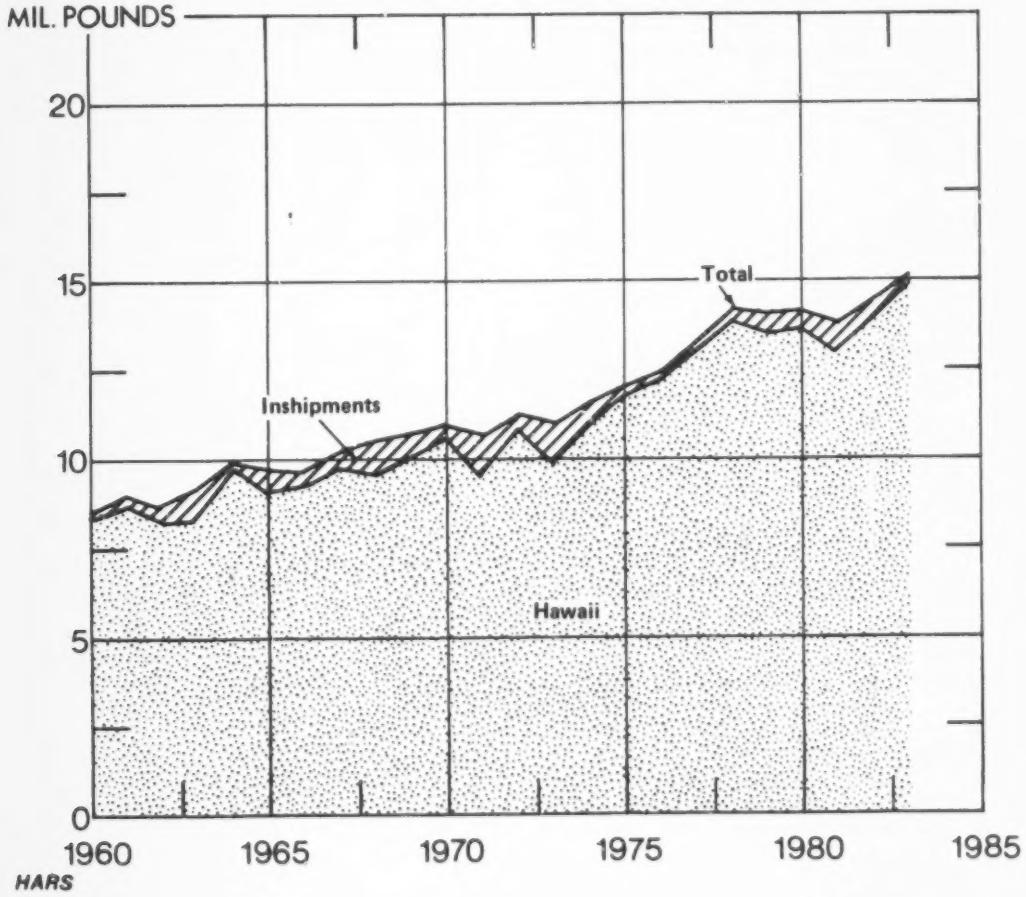
DASHEEN: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979...	10	25.0	250	51.3	128
1980...	14	24.3	340	51.4	175
1981...	7	28.6	200	59.0	118
1982...	13	25.4	330	65.1	215
1983...	18	25.0	450	52.4	236

MARKET SUPPLY: Fresh Market Chinese Cabbage, State of Hawaii, 1960-83



MARKET SUPPLY: Fresh Market Head Cabbage, State of Hawaii, 1960-83



HEAD CABBAGE: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	450	30.0	13,500	11.3	1,526
1980...	460	29.5	13,600	12.8	1,741
1981...	510	25.0	12,800	14.0	1,792
1982...	540	25.5	13,800	14.1	1,946
1983...	**550**	**27.3**	**15,000**	**11.8**	**1,770**
			HAWAII/KAUAI/OAHU [2]		
1979...	90	22.4	2,020	11.2	226
1980...	100	23.3	2,330	12.3	287
1981...	120	19.2	2,300	13.6	312
1982...	125	21.6	2,700	12.9	348
1983...	**130**	**23.1**	**3,000**	**10.2**	**306**
			MAUI		
1979...	360	31.9	11,500	11.3	1,300
1980...	360	31.3	11,270	12.9	1,454
1981...	390	26.9	10,500	14.1	1,480
1982...	415	26.7	11,100	14.4	1,598
1983...	**420**	**28.6**	**12,000**	**12.2**	**1,464**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai and Oahu combined with Hawaii to avoid disclosure of individual operations.

HEAD CABBAGE: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Production [1]					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	**34**	38	43	43	**42**	949	1,162	1,139	1,218	**1,220**	13.9	14.7	13.9	15.4	**13.3**
February	37	36	48	45	**52**	1,020	1,087	1,203	1,156	**1,269**	15.6	12.9	13.9	15.6	**12.8**
March	36	37	47	49	**53**	1,037	1,198	1,263	1,247	**1,420**	18.5	12.5	13.1	15.8	**11.7**
April	38	38	47	39	**51**	1,179	1,220	1,259	1,152	**1,201**	15.6	12.5	12.6	15.5	**10.6**
May	44	40	47	41	**49**	1,334	1,245	1,162	1,219	**1,224**	9.8	12.5	10.5	15.0	**10.2**
June	39	39	44	43	**50**	1,185	1,128	1,087	1,086	**1,237**	8.4	11.3	9.3	13.0	**9.7**
July	40	39	35	43	**47**	1,180	1,183	830	1,181	**1,227**	7.9	10.4	13.4	11.7	**9.4**
August	38	41	39	45	**48**	1,227	1,093	877	1,026	**1,234**	7.8	10.6	14.8	11.6	**9.9**
September	38	41	34	47	**43**	1,130	1,118	797	906	**1,242**	7.8	13.0	17.2	13.9	**12.7**
October	37	36	38	48	**38**	1,121	961	929	1,111	**1,224**	8.6	13.7	18.8	14.2	**13.7**
November	38	36	44	45	**39**	1,117	994	1,041	1,135	**1,247**	11.6	14.7	17.0	13.6	**13.7**
December	33	37	44	52	**38**	1,041	1,211	1,213	1,363	**1,255**	12.3	14.7	15.7	13.0	**14.0**
Total or average	450	460	510	540	**550**	13,500	13,600	12,800	13,800	**15,000**	11.3	12.8	14.0	14.1	**11.8**

[1] Sum of monthly estimates may not add to State total due to rounding.

CELERY: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE		
1979...	65	40.8	2,650	17.3	458
1980...	70	41.1	2,880	16.7	481
1981...	65	43.4	2,820	20.1	567
1982...	75	42.0	3,150	19.4	611
1983...	**110**	**36.0**	**3,960**	**19.7**	**780**
			HAWAII		
1979...	50	41.6	2,080	16.7	347
1980...	55	41.8	2,300	16.1	370
1981...	50	42.0	2,100	19.6	412
1982...	60	40.7	2,440	19.1	466
1983...	**90**	**34.9**	**3,140**	**19.2**	**603**
			MAUI		
1979...	15	38.0	570	19.4	111
1980...	15	38.7	580	19.1	111
1981...	15	48.0	720	21.5	155
1982...	15	47.3	710	20.4	145
1983...	**20**	**41.0**	**820**	**21.6**	**177**

CELERY: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested					Production					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	5	4	5	6	**7**	162	164	201	293	**256**	17.8	18.7	19.8	20.6	**17.8**
February	5	4	5	5	**7**	183	155	208	242	**270**	19.2	18.0	19.9	20.8	**17.7**
March	5	6	5	6	**8**	195	240	242	263	**326**	18.5	17.5	18.8	21.7	**18.3**
April	6	6	6	6	**9**	233	261	253	270	**347**	17.7	16.2	18.9	19.6	**19.7**
May	6	5	7	6	**10**	243	244	299	280	**369**	16.5	16.5	19.6	19.4	**22.3**
June	6	6	5	7	**10**	264	253	265	313	**362**	17.6	16.5	20.7	20.0	**21.1**
July	6	7	6	7	**10**	255	261	235	310	**394**	18.4	16.5	21.0	18.1	**20.0**
August	6	7	5	6	**10**	254	275	219	253	**334**	16.5	16.6	21.1	17.4	**17.6**
September	6	6	5	6	**10**	209	238	206	202	**313**	16.4	16.1	20.5	18.5	**18.2**
October	5	6	5	6	**9**	232	260	223	215	**291**	16.2	16.2	20.1	18.4	**19.2**
November	5	7	5	7	**10**	226	260	215	232	**355**	16.6	16.1	20.0	18.7	**19.2**
December	4	6	6	7	**10**	194	269	254	277	**343**	16.6	16.4	20.6	18.6	**23.4**
Total or average	65	70	65	75	**110**	2,650	2,880	2,820	3,150	**3,960**	17.3	16.7	20.1	19.4	**19.7**

SWEET CORN: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	380	4.0	1,510	21.2	320
1980...	250	3.8	950	26.2	249
1981...	290	3.6	1,050	29.3	308
1982...	170	3.3	560	33.4	187
1983...	**250**	**3.5**	**880**	**33.8**	**297**
			HAWAII/KAUAI [2]		
1979...	20	4.5	90	22.7	20
1980...	35	4.9	170	27.6	47
1981...	40	4.4	175	26.9	47
1982...	16	4.7	75	32.0	24
1983...	**25**	**5.4**	**135**	**31.3**	**42**
			MAUI/MOLOKAI		
1979...	30	3.0	90	21.0	19
1980...	20	4.0	80	24.5	20
1981...	15	3.7	55	34.6	19
1982...	9	3.9	35	45.7	16
1983...	**20**	**4.0**	**80**	**46.3**	**37**
			OAHU		
1979...	330	4.0	1,330	21.1	281
1980...	195	3.6	700	26.0	182
1981...	235	3.5	820	29.5	242
1982...	145	3.1	450	32.6	147
1983...	**205**	**3.2**	**665**	**32.8**	**218**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEET CORN: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested					Production[1]					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	35	13	17	11	**5**	61	33	55	30	**10**	24.5	23.2	27.4	31.1	**33.3**
February	16	12	15	6	**9**	29	36	51	26	**13**	21.4	22.7	28.4	33.5	**33.8**
March	23	8	14	2	**6**	74	21	52	10	**18**	19.9	25.7	31.7	36.0	**34.5**
April	17	16	28	6	**11**	64	48	133	28	**60**	20.1	27.8	30.7	38.9	**32.4**
May	23	21	34	11	**26**	98	91	109	37	**95**	23.6	21.7	31.5	33.8	**33.2**
June	30	18	32	19	**28**	167	93	116	66	**103**	22.8	21.6	31.9	34.3	**31.9**
July	39	23	20	24	**26**	196	133	88	95	**102**	21.2	26.8	27.9	32.0	**37.7**
August	41	27	29	18	**27**	195	125	106	67	**90**	20.7	27.1	27.3	31.6	**34.4**
September	43	24	32	12	**31**	206	80	104	49	**85**	20.4	26.6	28.0	30.7	**31.5**
October	39	27	26	14	**31**	190	86	89	51	**116**	21.1	28.1	28.9	31.7	**31.7**
November	42	32	25	25	**30**	145	101	85	68	**120**	20.4	28.8	26.0	36.9	**35.3**
December	32	29	18	22	**20**	85	103	62	33	**68**	19.7	29.5	28.3	34.5	**36.3**
Total or average	380	250	290	170	**250**	1,510	950	1,050	560	**880**	21.2	26.2	29.3	33.4	**33.8**

[1] Sum of monthly estimates may not add to annual total due to rounding.

CUCUMBERS: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	270	17.5	4,700	26.1	1,227
1980...	210	22.0	4,600	25.5	1,173
1981...	250	20.0	5,000	25.3	1,265
1982...	225	19.3	4,350	31.1	1,353
1983...	**250**	**20.8**	**5,200**	**26.6**	**1,383**
			HAWAII		
1979...	120	21.7	2,600	23.3	606
1980...	90	32.8	2,950	22.8	673
1981...	90	33.3	3,000	22.2	666
1982...	90	30.6	2,750	28.2	776
1983...	**100**	**33.2**	**3,320**	**23.9**	**793**
			KAUAI		
1979...	35	17.7	620	26.1	162
1980...	15	16.0	240	27.7	66
1981...	35	11.4	400	24.6	98
1982...	35	11.6	405	27.8	113
1983...	**20**	**9.5**	**190**	**28.6**	**54**
			MAUI/MOLOKAI		
1979...	15	16.7	250	31.2	78
1980...	25	14.4	360	26.7	96
1981...	35	11.4	400	28.2	113
1982...	25	13.2	330	30.5	101
1983...	**50**	**11.2**	**560**	**25.9**	**145**
			OAHU		
1979...	100	12.3	1,230	31.0	381
1980...	80	13.1	1,050	32.2	338
1981...	90	13.3	1,200	32.3	388
1982...	75	11.7	865	42.0	363
1983...	**80**	**14.1**	**1,130**	**34.6**	**391**

[1] Sum of island estimates may not add to State total due to rounding.

CUCUMBERS: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Production [2]					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	24	22	24	33	**24**	198	217	371	385	**328**	33.5	26.7	28.5	30.3	**32.8**
February	22	17	17	21	**24**	98	264	198	335	**380**	39.4	26.3	30.0	41.6	**37.1**
March	35	21	26	25	**20**	355	220	307	299	**257**	26.1	27.9	30.8	40.6	**35.2**
April	32	27	36	33	**25**	366	392	495	377	**395**	24.6	26.4	20.8	34.1	**33.0**
May	**29**	28	30	28	**31**	425	488	459	299	**557**	27.0	25.4	21.4	31.5	**22.9**
June	33	28	27	32	**31**	471	354	414	466	**611**	25.5	23.8	26.2	29.6	**20.3**
July	38	30	26	34	**28**	458	526	549	561	**374**	25.2	22.9	24.5	18.1	**21.6**
August	31	37	34	31	**27**	526	577	503	309	**422**	23.1	18.5	20.9	25.4	**23.3**
September	36	30	32	24	**22**	527	479	422	326	**324**	25.1	23.8	24.2	32.0	**27.0**
October	42	25	30	18	**23**	474	298	387	325	**357**	25.0	28.9	27.4	32.4	**31.2**
November	36	22	28	23	**29**	393	336	500	337	**522**	25.7	31.1	28.0	33.1	**26.3**
December	28	22	27	21	**42**	407	449	395	331	**673**	28.2	31.7	27.3	34.8	**22.1**
Total or average	270	210	250	225	**250**	4,700	4,600	5,000	4,350	**5,200**	26.1	25.5	25.3	31.1	**26.6**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

DAIKON: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	210	15.5	3,260	15.2	496
1980...	200	16.9	3,370	15.9	536
1981...	200	13.4	2,680	16.6	445
1982...	180	17.0	3,060	17.8	545
1983...	**190**	**16.5**	**3,140**	**15.7**	**493**
			HAWAII		
1979...	110	13.4	1,470	9.4	138
1980...	110	15.0	1,645	10.6	174
1981...	110	12.9	1,420	12.6	179
1982...	100	19.4	1,940	14.0	272
1983...	**80**	**19.8**	**1,580**	**12.2**	**193**
			MAUI/OAHU [2]		
1979...	100	17.9	1,790	20.0	358
1980...	90	19.2	1,725	21.0	362
1981...	90	14.0	1,260	21.1	266
1982...	80	14.0	1,120	24.4	273
1983...	**110**	**14.2**	**1,560**	**19.2**	**300**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Maui and Oahu combined to avoid disclosure of individual operations.

DAIKON: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Processing and fresh market: Production					Processing and fresh market: Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	15	18	18	17	**15**	266	266	194	230	**329**	19.6	17.3	16.1	21.7	**20.6**
February	15	16	14	13	**14**	205	288	185	207	**272**	18.8	17.5	15.4	19.5	**15.1**
March	15	15	18	11	**16**	193	267	249	242	**271**	21.0	17.9	17.6	20.6	**12.6**
April	17	20	19	13	**16**	259	385	311	299	**258**	19.2	14.6	11.8	20.3	**18.9**
May	18	21	20	14	**16**	333	370	230	324	**288**	11.6	12.2	14.9	15.2	**16.2**
June	21	14	16	15	**16**	301	244	182	269	**260**	11.2	13.8	17.5	14.1	**14.0**
July	22	16	19	15	**17**	295	276	254	226	**260**	12.9	15.7	17.4	15.9	**13.4**
August	22	17	19	18	**17**	299	267	232	277	**229**	13.9	14.3	14.7	15.1	**13.4**
September	15	16	15	15	**16**	252	255	155	211	**227**	13.0	15.2	16.3	17.7	**15.5**
October	16	17	13	18	**16**	295	247	202	284	**212**	16.6	17.0	19.2	17.3	**15.5**
November	18	12	14	16	**15**	323	212	224	238	**255**	12.3	19.2	18.3	17.9	**15.9**
December	16	18	15	15	**16**	239	293	262	253	**279**	16.9	18.5	21.3	19.6	**15.8**
Total or average	210	200	200	180	**190**	3,260	3,370	2,680	3,060	**3,140**	15.2	15.9	16.6	17.8	**15.7**

[1] Sum of monthly estimates may not add to State total due to rounding.

EGGPLANT: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	60	26.2	1,570	42.0	659
1980...	60	25.7	1,540	38.1	587
1981...	60	35.7	1,580	35.7	564
1982...	45	25.1	1,130	45.2	511
1983...	60	24.7	1,480	48.0	710
			HAWAII/MAUI/MOLOKAI [2]		
1979...	13	18.5	240	35.0	84
1980...	14	18.6	260	35.8	93
1981...	15	18.0	270	34.8	94
1982...	11	22.7	250	40.7	102
1983...	15	24.0	360	40.7	147
			KAUAI		
1979...	17	28.2	480	38.8	186
1980...	17	28.8	490	38.1	187
1981...	15	32.7	490	33.3	163
1982...	14	29.3	410	42.5	174
1983 ..	15	26.7	400	42.6	170
			OAHU		
1979...	30	28.3	850	45.8	389
1980...	29	27.2	790	38.8	307
1981...	30	27.3	820	37.4	307
1982...	20	23.5	470	50.1	235
1983...	30	24.0	720	54.6	393

[1] Sum of island estimates may not add to State total due to rounding.
[2] Hawaii, Maui, and Molokai combined to avoid disclosure of individual operations.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Out-of-State sales	Farm price	Value of sales
	Acres	1,000 pounds			Cents per pound	1,000 dollars
1979...	75	24.8	1,860	1,155	61.2	1,138
1980...	40	40.2	1,610	1,420	67.7	1,090
1981...	64	44.7	2,860	2,620	76.2	2,179
1982...	100	36.3	3,630	NA	92.3	3,350
1983...	160	32.1	5,134	NA	54.6	2,803

NA = Not available.

LETTUCE (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	650	14.5	9,400	21.1	1,983
1980...	660	15.0	9,900	19.7	1,950
1981...	680	15.0	10,200	22.7	2,315
1982...	650	14.5	9,400	26.2	2,463
1983...	**840**	**14.5**	**12,200**	**23.0**	**2,806**
			HAWAII		
1979...	330	12.5	4,140	17.3	716
1980...	350	12.6	4,400	16.1	708
1981...	300	14.3	4,300	17.6	757
1982...	290	13.4	3,900	23.6	920
1983...	**350**	**12.9**	**4,520**	**21.2**	**958**
			KAUAI/OAHU [2]		
1979...	130	15.2	1,970	31.5	621
1980...	120	17.1	2,050	29.8	611
1981...	120	16.7	2,000	35.4	708
1982...	115	14.8	1,700	32.9	559
1983...	**120**	**14.1**	**1,690**	**36.0**	**608**
			MAUI/MOLOKAI		
1979...	190	17.3	3,280	19.7	646
1980...	190	18.2	3,450	18.3	631
1981...	260	15.0	3,900	21.8	850
1982...	245	15.5	3,800	25.9	984
1983...	**370**	**16.2**	**5,990**	**20.7**	**1,240**

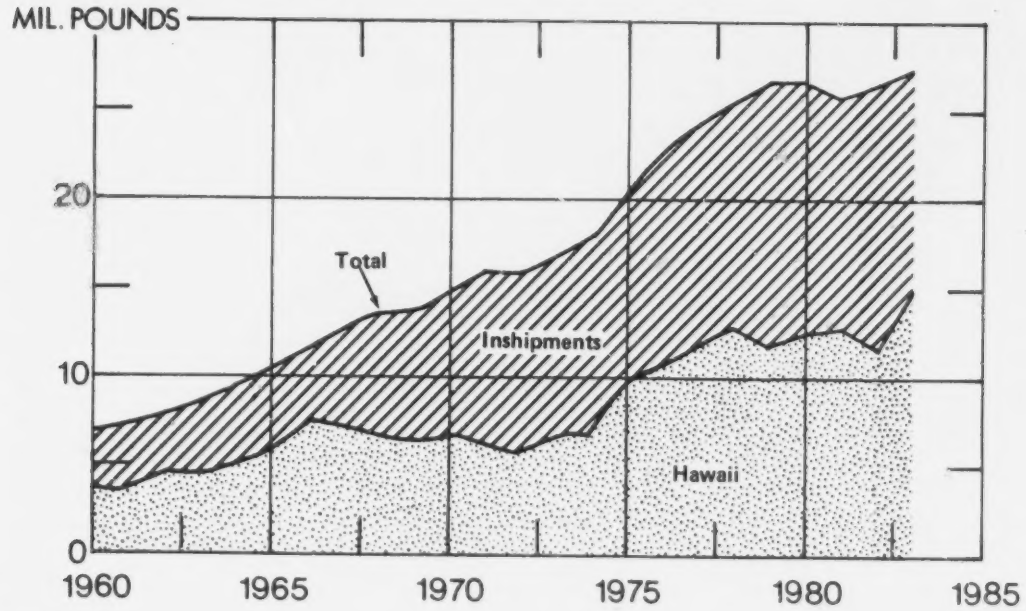
[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Oahu to avoid disclosure of individual operations.

LETTUCE (HEAD, SEMI-HEAD): Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Production [1]					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	53	39	59	53	**55**	744	485	814	561	**777**	25.4	23.6	22.5	35.3	**27.2**
February	46	41	56	47	**67**	441	551	798	511	**939**	30.0	24.0	21.5	39.5	**23.6**
March	50	55	60	55	**82**	585	801	953	611	**1,302**	28.4	19.5	21.1	28.4	**19.2**
April	52	48	62	50	**79**	813	751	927	858	**1,228**	18.0	20.7	18.7	27.8	**18.4**
May	59	62	62	56	**82**	987	975	1,035	1,071	**1,284**	17.9	19.1	18.9	23.4	**21.4**
June	55	61	58	54	**76**	832	895	966	957	**1,184**	17.4	18.4	19.5	22.2	**22.2**
July	59	62	54	57	**69**	955	962	851	902	**1,067**	18.6	17.1	22.8	22.7	**21.8**
August	59	62	57	50	**69**	911	933	668	759	**1,016**	19.5	18.0	25.2	24.0	**22.5**
September	55	57	52	55	**68**	884	922	752	793	**922**	20.3	19.6	26.0	25.8	**23.3**
October	55	56	51	56	**61**	739	905	814	1,034	**802**	21.4	21.5	25.4	23.4	**26.4**
November	54	58	55	60	**63**	737	912	823	753	**833**	22.3	19.6	25.7	24.8	**28.2**
December	53	59	54	57	**69**	762	808	799	590	**846**	22.3	19.6	28.2	28.0	**28.0**
Total or average	650	660	680	650	**840**	9,400	9,900	10,200	9,400	**12,200**	21.1	19.7	22.7	26.2	**23.0**

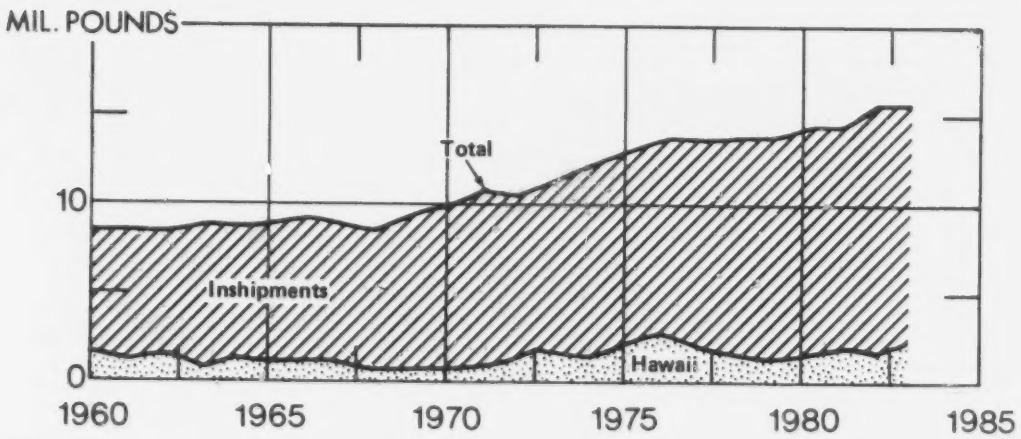
[1] Sum of monthly estimates may not add to State total due to rounding.

MARKET SUPPLY: Fresh Market Lettuce, State of Hawaii, 1960-83



HARS

MARKET SUPPLY: Fresh Market Dry Onions, State of Hawaii, 1960-83



HARS

DRY ONIONS: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	70	17.0	1,190	45.0	536
1980...	80	14.4	1,150	60.8	699
1981...	120	16.5	1,980	51.4	1,018
1982...	105	12.9	1,350	66.2	894
1983...	**150**	**15.2**	**2,280**	**55.4**	**1,263**
			HAWAII/KAUAI/OAHU [2]		
1979...	10	12.0	120	47.2	57
1980...	5	14.0	70	58.5	41
1981...	10	13.0	130	52.7	69
1982...	10	10.0	100	64.0	64
1983...	**10**	**14.0**	**140**	**50.5**	**71**
			MAUI/MOLOKAI		
1979...	60	17.8	1,070	44.8	479
1980...	75	14.4	1,080	60.9	658
1981...	110	16.8	1,850	51.3	949
1982...	95	13.2	1,250	66.4	830
1983...	**140**	**15.3**	**2,140**	**55.7**	**1,192**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Hawaii, Kauai, and Oahu combined to avoid disclosure of individual operations.

DRY ONIONS: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Production					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	6	5	6	5	**8**	72	83	117	95	**101**	56.4	57.9	61.9	61.7	**69.2**
February	8	5	7	12	**12**	77	75	118	96	**181**	53.4	62.1	62.0	70.7	**71.4**
March	3	5	8	12	**12**	43	87	215	173	**169**	61.1	65.5	58.6	77.9	**68.3**
April	9	5	11	8	**10**	124	74	291	90	**226**	48.0	59.0	45.5	72.0	**58.0**
May	8	6	14	7	**16**	155	84	240	100	**329**	31.1	69.5	41.7	66.7	**47.5**
June	7	10	14	11	**14**	144	148	212	145	**266**	34.5	60.5	36.8	60.7	**37.5**
July	6	11	11	10	**14**	125	147	157	144	**218**	35.7	51.0	41.7	59.4	**31.0**
August	4	5	8	7	**13**	71	57	113	75	**126**	41.3	55.5	47.1	56.6	**38.5**
September	4	5	11	12	**12**	79	84	97	126	**164**	46.9	54.5	55.3	59.9	**49.4**
October	4	5	8	5	**17**	67	82	103	61	**167**	50.6	63.6	61.4	60.5	**70.4**
November	4	10	10	9	**14**	103	115	129	141	**194**	53.5	69.4	64.1	71.2	**70.6**
December	7	8	12	7	**8**	130	114	188	104	**139**	54.0	62.6	62.8	69.0	**78.8**
Total or average	70	80	120	105	**150**	1,190	1,150	1,980	1,350	**2,280**	45.0	60.8	51.4	66.2	**55.4**

[1] Sum of monthly estimates may not add to State total due to rounding.

GREEN ONIONS: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE		
1979...	120	9.5	1,135	71.9	816
1980...	90	10.0	900	72.5	652
1981...	75	9.9	740	76.5	566
1982...	115	7.0	800	84.3	674
1983...	**150**	**7.3**	**1,090**	**69.9**	**762**
			HAWAII/KAUAI [1]		
1979...	8	8.8	70	53.7	38
1980...	7	11.4	80	65.5	52
1981...	8	8.8	70	69.2	48
1982...	10	6.5	65	78.5	51
1983...	**10**	**7.0**	**70**	**69.1**	**48**
			MAUI/MOLOKAI		
1979...	12	9.6	115	70.8	81
1980...	8	11.2	90	72.6	65
1981...	7	10.0	70	78.2	55
1982...	10	6.0	60	95.0	57
1983...	**10**	**10.0**	**100**	**89.2**	**89**
			OAHU		
1979...	100	9.5	950	73.4	697
1980...	75	9.7	730	73.3	535
1981...	60	10.0	600	77.2	463
1982...	95	7.1	675	83.9	566
1983...	**130**	**7.1**	**920**	**67.9**	**625**

[1] Kauai combined with Hawaii to avoid disclosure of individual operations.

GREEN ONIONS: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested					Production					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	9	8	8	9	**10**	**72**	64	37	42	**77**	80.7	83.9	86.0	98.0	**96.1**
February	11	7	4	6	**11**	82	75	40	38	**85**	82.8	81.7	90.6	115.0	**80.2**
March	10	8	6	4	**13**	75	65	68	36	**93**	81.2	84.8	88.1	108.5	**78.7**
April	8	7	5	8	**13**	94	77	74	52	**107**	74.7	79.9	74.9	115.6	**71.8**
May	**11**	8	7	9	**14**	112	89	72	77	**108**	62.7	69.9	74.8	89.5	**63.7**
June	11	8	6	12	**14**	111	81	76	107	**101**	59.7	66.0	64.6	64.2	**51.2**
July	12	8	6	11	**13**	109	80	73	90	**96**	59.4	63.8	59.9	59.7	**54.5**
August	10	7	6	11	**12**	108	78	63	90	**83**	66.6	60.4	61.1	66.9	**63.9**
September	10	8	7	11	**11**	94	84	64	65	**80**	72.1	62.2	68.8	79.1	**76.4**
October	10	7	5	12	**11**	85	76	54	72	**71**	74.5	68.8	83.3	82.4	**72.0**
November	9	6	8	11	**14**	94	61	52	70	**87**	77.6	78.1	92.5	86.9	**69.2**
December	9	8	7	11	**14**	99	70	67	61	**102**	82.5	78.1	90.6	109.6	**70.3**
Total or average	120	90	75	115	**150**	1,135	900	740	800	**1,090**	71.9	72.5	76.5	84.3	**69.9**

LOTUS ROOT: Acreage, yield, production, price, and value, State of Hawaii 1979-83 [1]

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979...	40	5.2	210	87.4	184
1980...	35	5.4	190	96.7	184
1981...	35	5.1	180	98.5	177
1982...	35	5.7	200	108.6	217
1983...	35	5.3	185	109.5	203

[1] State production all on Island of Oahu.

PUMPKINS: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
1979...	25	12.0	300	23.2	70
1980...	20	14.8	295	20.8	61
1981...	25	13.2	330	21.9	72
1982...	23	13.5	310	21.0	65
1983...	25	13.6	340	24.3	83

WATERCRESS: Acreage, production, price, and value, State of Hawaii, 1979-83

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	1,000 pounds	Cents per pound	1,000 dollars
1979...	32	1,670	41.1	686
1980...	32	1,420	48.3	686
1981...	30	1,130	63.3	715
1982...	25	850	73.2	622
1983...	30	1,300	83.4	1,084

GREEN PEPPERS: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1979...	65	13.7	890	41.1	366
1980...	45	13.8	620	42.7	265
1981...	55	13.8	760	54.4	413
1982...	55	14.9	820	48.1	394
1983...	**80**	**14.9**	**1,190**	**53.0**	**631**
			HAWAII		
1979...	17	10.0	170	36.9	63
1980...	13	11.2	145	39.8	58
1981...	15	11.7	175	45.6	80
1982...	12	13.3	160	45.5	73
1983...	**10**	**11.0**	**110**	**53.8**	**59**
			KAUAI		
1979...	22	17.5	385	41.4	159
1980...	15	16.7	250	42.3	106
1981...	17	15.6	265	56.4	149
1982...	17	15.3	260	51.4	134
1983...	**17**	**16.5**	**280**	**49.5**	**139**
			MAUI/MOLOKAI		
1979...	11	15.9	175	42.6	75
1980...	12	14.2	170	45.3	77
1981...	14	15.7	220	51.2	113
1982...	18	15.3	275	44.3	121
1983...	**45**	**14.4**	**650**	**54.6**	**355**
			OAHU		
1979...	15	10.7	160	43.3	69
1980...	5	11.0	55	44.5	24
1981...	9	11.1	100	71.4	71
1982...	8	15.6	125	52.7	66
1983...	**8**	**18.8**	**150**	**51.7**	**78**

[1] Sum of island estimates may not add to State total due to rounding.

GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested[1]					Production					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	20	9	12	17	**8**	48	33	53	41	**54**	42.8	50.6	48.6	54.7	**47.9**
February	13	14	12	13	**8**	48	26	60	65	**65**	39.1	48.0	53.0	55.7	**66.6**
March	14	13	12	12	**12**	56	52	43	62	**94**	41.7	42.4	79.2	58.8	**73.8**
April	19	13	12	10	**17**	81	42	62	58	**137**	37.1	42.6	94.9	57.1	**66.2**
May	18	12	14	12	**23**	92	81	60	84	**165**	48.2	46.1	69.3	58.0	**52.5**
June	25	14	16	18	**16**	113	65	72	107	**133**	49.9	45.6	52.3	55.1	**47.6**
July	29	17	14	20	**17**	100	83	58	86	**119**	40.5	35.6	53.5	46.1	**51.7**
August	21	15	13	20	**13**	76	39	57	96	**106**	41.7	41.8	51.4	38.4	**47.7**
September	21	13	17	13	**10**	102	37	75	65	**75**	30.4	42.4	45.0	35.7	**44.7**
October	19	13	20	12	**8**	76	61	83	58	**69**	32.5	35.3	34.1	36.3	**41.3**
November	19	13	21	9	**11**	42	44	65	62	**79**	42.8	43.7	39.4	36.8	**43.2**
December	14	14	21	6	**9**	56	57	72	36	**94**	47.3	46.7	49.5	41.5	**45.5**
Total or average	65	45	55	55	**80**	890	620	760	820	**1,190**	41.1	42.7	54.4	48.1	**53.0**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.

ROMAINE: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE		
1979...	130	17.5	2,270	16.5	375
1980...	130	16.7	2,170	16.5	358
1981...	130	17.8	2,320	18.7	434
1982...	115	18.5	2,130	23.9	509
1983...	**140**	**18.7**	**2,620**	**19.5**	**511**
			HAWAII		
1979...	80	17.0	1,360	15.0	204
1980...	75	16.9	1,270	15.4	196
1981...	75	18.1	1,360	17.6	239
1982...	65	18.2	1,180	23.6	278
1983...	**80**	**19.5**	**1,560**	**20.1**	**314**
			MAUI		
1979...	50	18.2	910	18.8	171
1980...	55	16.4	900	18.0	162
1981...	55	17.5	960	20.3	195
1982...	50	19.0	950	24.3	231
1983...	**60**	**17.7**	**1,060**	**18.6**	**197**

ROMAINE: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Production [1]					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	11	9	11	8	**7**	177	116	188	134	**166**	19.4	18.2	18.0	36.6	**22.5**
February	12	10	11	8	**11**	121	151	190	107	**208**	21.5	19.1	18.6	41.0	**21.3**
March	13	12	11	9	**14**	186	189	209	145	**257**	22.0	18.6	19.2	37.3	**17.7**
April	10	8	11	10	**14**	196	125	215	191	**266**	13.2	18.7	16.9	28.1	**16.0**
May	13	13	13	11	**14**	226	220	227	244	**270**	13.3	18.2	16.2	22.7	**15.5**
June	12	10	12	11	**15**	235	184	209	227	**274**	13.4	15.7	15.8	18.0	**15.5**
July	10	12	11	11	**12**	184	217	204	226	**225**	13.0	14.4	17.9	16.4	**15.9**
August	11	11	10	9	**11**	207	203	164	154	**176**	14.6	13.8	17.9	18.9	**19.5**
September	10	10	12	9	**10**	170	170	207	162	**186**	15.9	14.6	22.1	20.9	**21.1**
October	10	11	8	10	**11**	185	195	183	215	**179**	19.3	16.0	20.2	20.1	**24.8**
November	9	12	9	9	**10**	186	196	176	167	**191**	18.6	16.4	19.7	20.3	**26.2**
December	9	12	11	10	**11**	197	204	148	158	**222**	17.6	16.0	24.4	22.1	**24.4**
Total or average	130	130	130	115	**140**	2,270	2,170	2,320	2,130	**2,620**	16.5	16.5	18.7	23.9	**19.5**

[1] Sum of monthly estimates may not add to State total due to rounding.

SQUASH, ITALIAN: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	20	11.0	220	30.1	66
1980...	25	12.0	300	30.7	92
1981...	45	12.0	540	30.7	166
1982...	34	11.5	390	36.2	141
1983...	**70**	**10.6**	**740**	**32.0**	**237**
			HAWAII		
1979...	8	10.0	80	29.0	23
1980...	11	10.9	120	29.3	35
1981...	16	11.9	190	30.5	58
1982...	20	11.5	230	36.5	84
1983...	**37**	**10.0**	**370**	**31.6**	**117**
			KAUAI/OAHU [2]		
1979...	2	10.0	20	30.6	6
1980...	2	15.0	30	36.4	11
1981...	3	10.0	30	37.0	11
1982...	3	10.0	30	39.3	12
1983...	**6**	**11.7**	**70**	**35.1**	**25**
			MAUI		
1979...	10	12.0	120	30.8	37
1980...	12	12.5	150	31.0	46
1981...	26	12.3	320	30.2	97
1982...	11	11.8	130	35.0	45
1983...	**27**	**11.1**	**300**	**31.8**	**95**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Oahu combined with Kauai to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE[1]		
1979...	150	11.6	1,740	25.0	435
1980...	100	13.0	1,300	27.7	360
1981...	90	13.9	1,250	26.8	335
1982...	130	11.8	1,530	25.2	386
1983...	**190**	**9.8**	**1,860**	**25.4**	**472**
			HAWAII		
1979...	40	7.0	280	21.2	59
1980...	2/12	2/12.5	2/150	2/23.8	2/36
1981...	2/10	2/13.0	2/130	2/25.0	2/33
1982...	2/15	2/8.7	2/130	2/24.1	2/31
1983...	**2/15**	**2/11.3**	**2/170**	**2/25.9**	**2/44**
			KAUAI		
1979...	7	14.3	100	27.0	27
1980...	2/	2/	2/	2/	2/
1981...	2/	2/	2/	2/	2/
1982...	2/	2/	2/	2/	2/
1983...	**2/**	**2/**	**2/**	**2/**	**2/**
			MAUI/MOLOKAI		
1979...	38	15.0	570	21.0	120
1980...	43	15.3	660	24.0	158
1981...	50	14.2	710	24.1	171
1982...	80	12.5	1,000	22.9	229
1983...	**115**	**9.5**	**1,090**	**22.3**	**243**
			OAHU		
1979...	65	12.2	790	29.0	229
1980...	45	10.9	490	33.8	166
1981...	30	13.7	410	31.9	131
1982...	35	11.4	400	31.4	126
1983...	**60**	**10.0**	**600**	**30.8**	**185**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested					Production					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	11	7	7	11	**13**	95	86	88	84	**168**	21.4	26.4	28.2	28.1	**25.0**
February	11	8	6	10	**13**	101	97	84	90	**140**	23.8	28.7	27.5	29.4	**26.1**
March	11	10	6	10	**15**	139	118	94	112	**122**	25.1	27.3	26.1	29.4	**25.5**
April	11	7	7	6	**15**	127	102	104	86	**128**	24.1	26.8	25.6	28.2	**26.5**
May	12	8	7	10	**18**	132	106	108	105	**172**	25.2	28.4	27.1	27.9	**25.1**
June	12	7	6	9	**20**	148	94	89	140	**225**	25.1	27.7	28.4	29.5	**24.2**
July	13	8	8	12	**17**	156	109	97	143	**148**	25.6	27.2	26.1	27.1	**24.3**
August	14	8	8	13	**21**	160	105	112	143	**195**	25.1	26.4	27.9	24.1	**26.1**
September	14	9	7	13	**19**	174	119	103	173	**163**	25.7	27.5	26.1	23.3	**24.8**
October	14	8	9	10	**13**	197	115	125	161	**131**	25.3	28.5	26.7	21.0	**24.7**
November	15	10	8	13	**12**	171	129	116	156	**150**	25.3	28.5	26.7	19.3	**26.0**
December	12	10	11	13	**14**	140	120	130	137	**118**	25.9	28.5	25.4	22.3	**27.2**
Total or average	150	100	90	130	**190**	1,740	1,300	1,250	1,530	**1,860**	25.0	27.7	26.8	25.2	**25.4**

TOMATOES: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	270	23.0	6,200	35.0	2,170
1980...	270	28.5	7,700	31.0	2,387
1981...	280	29.5	8,300	35.3	2,930
1982...	260	30.0	7,800	34.7	2,707
1983...	**290**	**30.0**	**8,700**	**38.7**	**3,367**
			HAWAII		
1979...	120	30.4	3,650	36.5	1,332
1980...	130	41.0	5,330	30.8	1,642
1981...	125	41.4	5,170	35.6	1,841
1982...	125	40.8	5,100	35.7	1,821
1983...	**125**	**41.5**	**5,190**	**39.8**	**2,066**
			KAUAI		
1979...	10	16.0	160	37.3	60
1980...	10	15.0	150	42.8	64
1981...	8	16.2	130	46.6	61
1982...	5	17.0	85	48.2	41
1983...	**3**	**16.7**	**50**	**52.9**	**26**
			MAUI/MOLOKAI		
1979...	120	17.5	2,100	31.5	662
1980...	120	16.6	1,990	29.6	589
1981...	135	20.1	2,720	32.6	887
1982...	120	20.6	2,475	30.7	760
1983...	**145**	**21.2**	**3,080**	**35.4**	**1,090**
			OAHU		
1979...	20	14.5	290	40.1	116
1980...	10	23.0	230	40.1	92
1981...	12	23.3	280	50.4	141
1982...	10	18.5	185	45.8	85
1983...	**17**	**22.4**	**380**	**48.6**	**185**

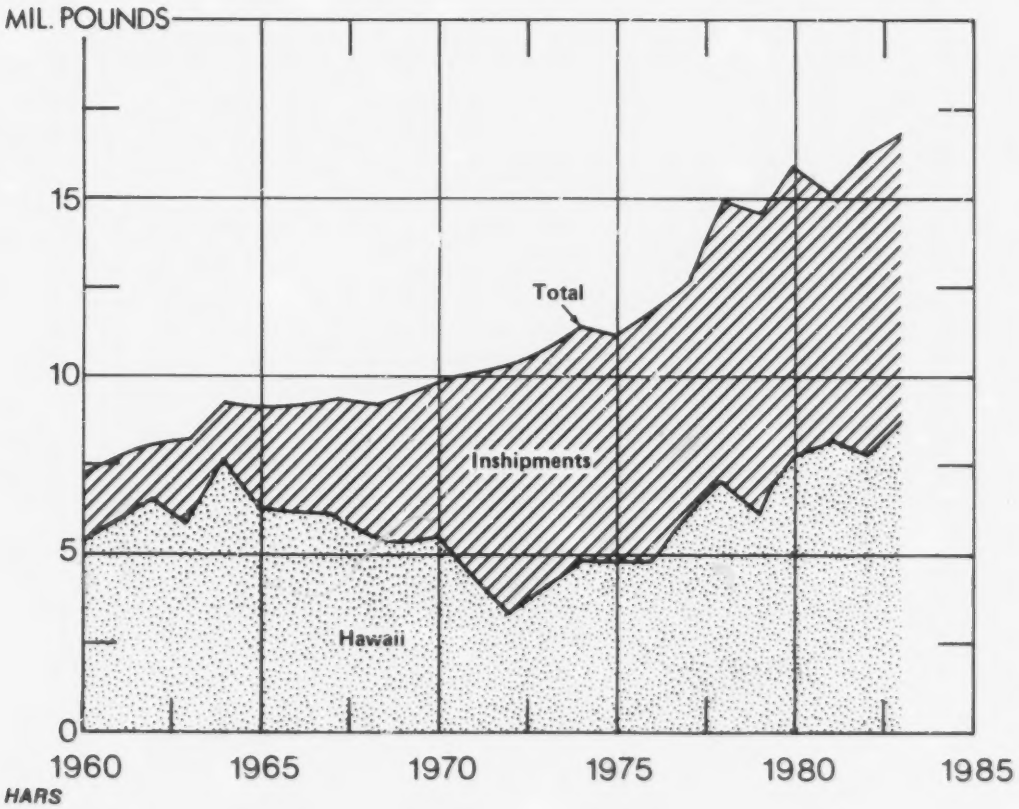
[1] Sum of island estimates may not add to State total due to rounding.

TOMATOES: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Production [2]					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	60	49	47	58	**43**	372	450	695	822	**585**	41.8	41.5	41.2	34.4	**45.5**
February	52	41	53	58	**45**	334	471	582	660	**748**	35.9	39.7	47.0	40.4	**42.1**
March	43	38	53	52	**45**	254	522	678	734	**808**	38.6	33.6	48.4	36.9	**44.5**
April	42	43	54	50	**49**	247	587	787	746	**783**	43.4	31.9	44.6	31.6	**45.9**
May	40	44	58	52	**56**	430	584	917	572	**911**	40.9	32.2	33.6	29.3	**42.7**
June	49	40	59	54	**48**	757	785	847	726	**766**	36.8	32.3	25.8	34.3	**35.2**
July	41	50	46	50	**43**	665	769	730	733	**564**	30.6	25.9	27.8	31.6	**33.2**
August	43	47	46	42	**46**	566	626	610	593	**675**	28.7	30.0	29.8	32.6	**34.9**
September	41	39	46	47	**50**	560	633	514	520	**727**	30.7	28.2	32.9	32.0	**33.0**
October	48	44	40	41	**50**	671	710	517	511	**643**	28.9	30.2	32.4	33.8	**33.8**
November	57	38	49	47	**42**	678	705	659	654	**652**	34.7	28.0	31.7	36.0	**35.6**
December	60	37	52	47	**53**	670	859	764	574	**838**	40.2	27.1	30.3	41.6	**35.5**
Total or average	270	270	280	260	**290**	6,200	7,700	8,300	7,800	**8,700**	35.0	31.0	35.3	34.7	**38.7**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Sum of monthly estimates may not add to annual total due to rounding.

MARKET SUPPLY: Fresh Market Tomatoes, State of Hawaii, 1960-83



MINOR CROPS: Acreage, yield, production, price, and value, State of Hawaii, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			BITTERMELON		
1979...	26	12.3	320	52.1	167
1980...	14	15.7	220	70.4	155
1981...	25	11.6	290	65.2	189
1982...	16	11.6	185	84.5	156
1983...	20	13.0	260	66.8	174
			ORIENTAL SQUASH (HYOTAN AND TOGAN)		
1979...	45	17.3	780	18.0	140
1980...	45	16.2	730	18.5	135
1981...	55	14.0	770	17.4	134
1982...	35	12.7	445	28.8	128
1983...	40	13.9	555	21.9	122
			PARSLEY		
1979...	13	13.1	170	57.8	98
1980...	18	13.9	250	67.5	169
1981...	20	14.0	280	68.7	192
1982...	18	14.4	260	73.4	191
1983...	25	13.2	330	70.4	232
			RADISH		
1979...	31	11.6	360	33.3	120
1980...	25	11.8	295	33.3	98
1981...	20	12.0	240	34.0	82
1982...	26	10.4	270	34.4	93
1983...	35	9.4	330	32.8	108
			CHINESE PEAS		
1979...	21	4.8	100	187.0	187
1980...	17	4.1	70	183.9	129
1981...	16	4.4	70	186.9	131
1982...	10	5.0	50	192.0	96
1983...	15	5.3	80	196.1	157

WATERMELONS: Acreage, yield, production, price, and value, by islands, 1979-83

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds		Cents per pound	1,000 dollars
			STATE [1]		
1979...	125	9.0	1,130	23.7	268
1980...	130	10.4	1,350	23.2	313
1981...	150	10.7	1,610	25.7	414
1982...	165	13.3	2,200	24.9	548
1983...	**310**	**12.5**	**3,860**	**19.9**	**768**
			HAWAII		
1979...	20	6.5	130	17.0	22
1980...	30	7.3	220	18.7	41
1981...	30	7.0	210	20.0	42
1982...	18	8.6	155	23.1	36
1983...	**15**	**8.0**	**120**	**20.9**	**25**
			KAUAI		
1979...	5	12.0	60	17.6	11
1980...	7	12.9	90	23.4	21
1981...	7	11.4	80	28.0	22
1982...	18	15.0	270	20.2	55
1983...	**55**	**13.5**	**740**	**19.0**	**141**
			MAUI/MOLOKAI		
1979...	30	12.7	380	20.2	77
1980...	28	12.1	340	21.4	73
1981...	43	13.0	560	23.0	129
1982...	53	16.5	875	22.0	192
1983...	**170**	**13.3**	**2,260**	**17.9**	**405**
			OAHU		
1979...	70	8.0	560	28.3	158
1980...	65	10.8	700	25.4	178
1981...	70	10.9	760	29.1	221
1982...	76	11.8	900	29.5	265
1983...	**70**	**10.6**	**740**	**26.6**	**197**

[1] Sum of island estimates may not add to State total due to rounding.

WATERMELONS: Acreage, production, and price, State of Hawaii, 1979-83

Month	Acreage harvested [1]					Production					Farm price				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	Acres					1,000 pounds					Cents per pound				
January	7	3	4	1	**2**	23	5	20	7	**11**	20.6	20.0	19.0	22.0	**21.8**
February	3	2	3	1	**0**	7	10	15	2	**0**	18.8	20.0	19.0	23.2	**0**
March	1	2	7	2	**0**	3	10	36	2	**0**	18.8	20.0	23.5	40.0	**0**
April	1	6	14	2	**19**	4	18	77	4	**168**	18.8	24.6	26.4	40.0	**22.7**
May	12	12	20	5	**66**	118	150	125	36	**697**	33.4	21.0	27.9	25.4	**23.4**
June	33	16	26	16	**78**	165	90	334	123	**744**	30.2	24.3	26.0	24.8	**21.1**
July	44	18	26	54	**63**	224	113	124	437	**567**	22.7	24.4	25.5	28.3	**18.8**
August	19	24	20	75	**51**	160	287	277	801	**670**	20.2	24.4	26.0	23.4	**17.1**
September	18	17	37	39	**67**	226	356	274	309	**458**	20.4	23.0	24.4	20.5	**19.3**
October	17	14	32	31	**40**	117	195	240	187	**348**	20.3	22.8	27.5	26.6	**17.5**
November	12	15	8	24	**19**	64	81	56	216	**160**	22.1	23.6	23.2	28.6	**18.0**
December	3	5	3	12	**4**	19	35	32	76	**37**	22.5	19.8	22.5	24.1	**18.7**
Total or average	125	130	150	165	**310**	1,130	1,350	1,610	2,200	**3,860**	23.7	23.2	25.7	24.9	**19.9**

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.

1983 LIVESTOCK SUMMARY

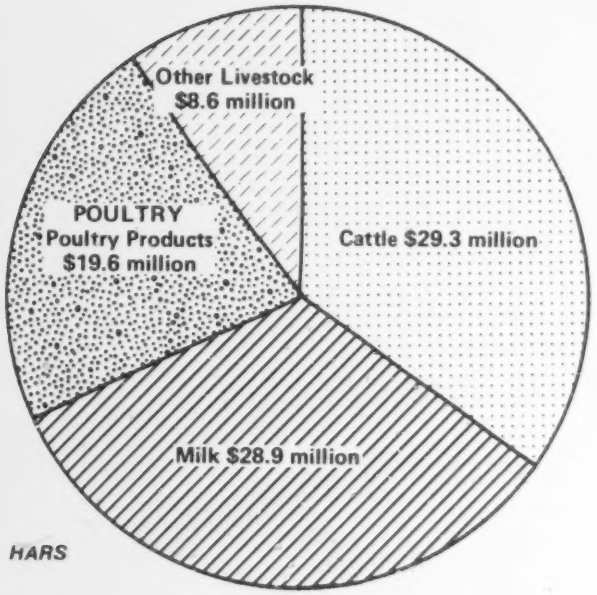
The 1983 farm level cash receipts from **LIVESTOCK** marketings totaled $86.4 million, $8.0 million more than 1982. Primarily responsible for the 10 percent gain were a return to more normal milk marketings and an increase in beef production. Although farmers and ranchers received lower prices than the previous year for both milk and beef, increased production and sales made the difference. **CATTLE** ranchers, despite obstacles such as extremely dry pasture conditions in some areas and weaker markets, still managed to ring up record high farm revenues of $29.3 million to remain the leader among livestock enterprises. **BEEF** production was up 12 percent from the previous year to 59.1 million pounds, offsetting an overall 5 percent drop in average cattle prices. The January 1, 1984 inventory was 226,000 head, down 4,000 from a year earlier with declines noted on all islands except Hawaii. After a trouble filled year in 1982, which saw dumping of pesticide contaminated milk, the **DAIRY** industry nearly recovered in 1983, with **MILK** sales returning to more normal levels and generated cash receipts of $28.9 million. The 32 percent increase in revenue resulted from a 35 percent boost in milk marketings. The average price dairymen received for their milk was lower than the previous year. The value of sales from **EGGS, CHICKENS,** and **BROILERS** declined 1 percent to $19.6 million, resulting primarily from a decline in egg receipts. Egg sales totaled $14.0 million, half a million dollars less than 1982. Both lower production, due to a decline in the number of layers, and a slightly lower average price were responsible for the drop in value. Revenue from broiler and chicken sales, at $5.5 million, was up 6 percent from a year earlier. The **HOG** industry saw cash receipts from marketings fall to $7.8 million in 1983, a decline of 8 percent from 1982. The reason for the dip in receipts was a 10 percent reduction in **PORK** output to 10.3 million pounds. As opposed to most other livestock items, hogs brought slightly better prices compared to the prior year. The hog and pig inventory as of December 1, 1983, totaled 48,000 head, 1,000 less than the year before and the third straight year of decline. **HONEY** production went over the million pound mark for the first time in 1983, reaching 1.3 million pounds. Cash receipts from the sale of honey and beeswax amounted to $806,000.

THE LIVESTOCK INDUSTRY IN HAWAII

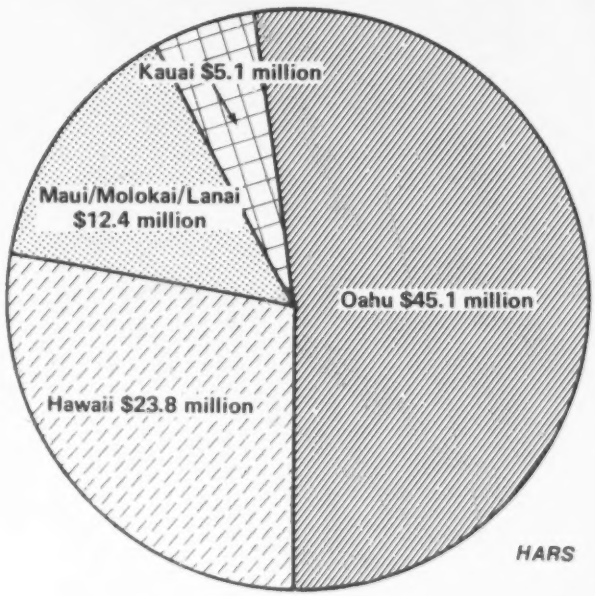
Hawaii's beef, pork, poultry, and dairy industries comprise a significant share of the State's agriculture with farm level sales averaging over $80 million a year. Revenues from livestock, poultry, and milk account for nearly half of the value of diversified agriculture and have been a steady contributor over the years. Beef cattle and milk production together contribute about two-thirds of the total livestock value. The poultry industry adds another 20-25 percent from the sales of eggs, chickens, and broilers and hog producers ring up receipts amounting to about 10 percent of the total. Returns from honey and beeswax, sheep, wool, and horses round out the livestock picture.

LIVESTOCK VALUES, STATE OF HAWAII, 1983

By Industry



By County

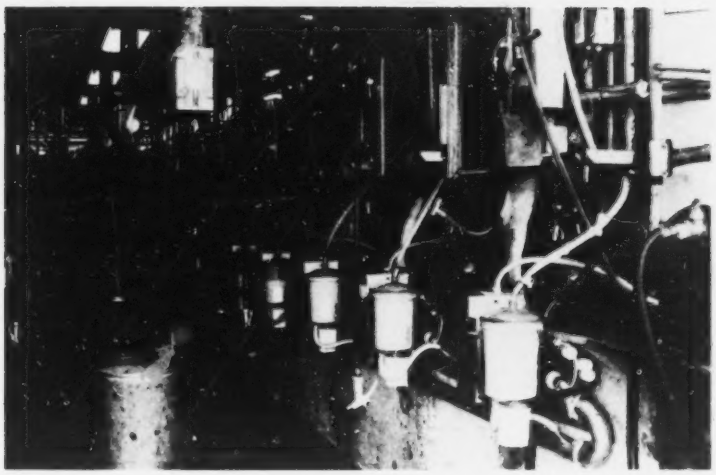


BEEF CATTLE INDUSTRY

Since their introduction in Hawaii nearly two centuries ago, beef cattle have developed into an important segment of Hawaii's agriculture. Beginning with Captain George Vancouver's present to King Kamehameha I of seven cows, one heifer, two bull calves, and one bull, the inventory grew to a peak of 250,000 head in 1975 and has since leveled off around 220,000-230,000 head. In 1980 the dollar value of the beef industry was outranked only by sugar and pineapple and it regularly occupies one of the top spots among diversified agriculture.

Today more acres of land are utilized for grazing and raising cattle than all the rest of agriculture together. Ranching can be found on all of the major islands and the size of the operations range from only a few head to one of the largest in the United States. Nearly three-fifths of the cattle are found on Hawaii Island where cattle raising got its start during the mid-nineteenth century. Maui's cattle population ranks second in the State with 15 percent of the total, followed by Oahu, Kauai/Niihau, and Molokai. Oahu's inventory is boosted by the State's largest feedlot at Barber's Point. About a third of the beef consumed in Hawaii is produced within the State with the rest supplied by mainland and foreign imports. In order to meet the challenge of rising costs some ranchers have installed Savory grazing cells. The Savory grazing method is an intensive pasture management system which promises to increase beef production significantly while utilizing less land without additional inputs such as fertilizer or irrigation.

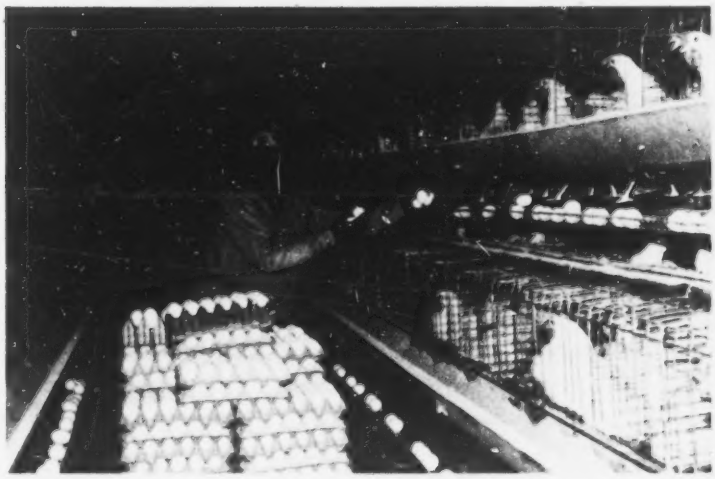
DAIRY INDUSTRY



Hawaii's dairy industry is characterized by large-scale, dry lot operations. The average size of the commercial dairies is over 500 head, among the highest in the Nation. The State's milk cow inventory, mostly Holstein, averages around 12,000 to 13,000 head with about three-fourths of the cows located on the Island of Oahu. Dairymen have increased annual output per cow an impressive 35 percent in the past 20 years to 11,920 pounds, considered excellent for Hawaii's subtropical climate. There are 23 commercial size operations of which 16 are located on Oahu, five on Hawaii Island, and one each on the Islands of Kauai and Maui. Dairymen have overcome many obstacles in providing ample supplies of wholesome milk. They must contend with higher costs than their mainland counterparts for feed, land, labor, and other necessary services. Most of the milk produced is for fresh utilization, with some limited manufacturing, primarily ice cream and frozen desserts. Hawaii's dairy industry, which has supplied all of the State's requirements over the years, is now faced with competition from imported milk from the Mainland West Coast.

POULTRY INDUSTRY

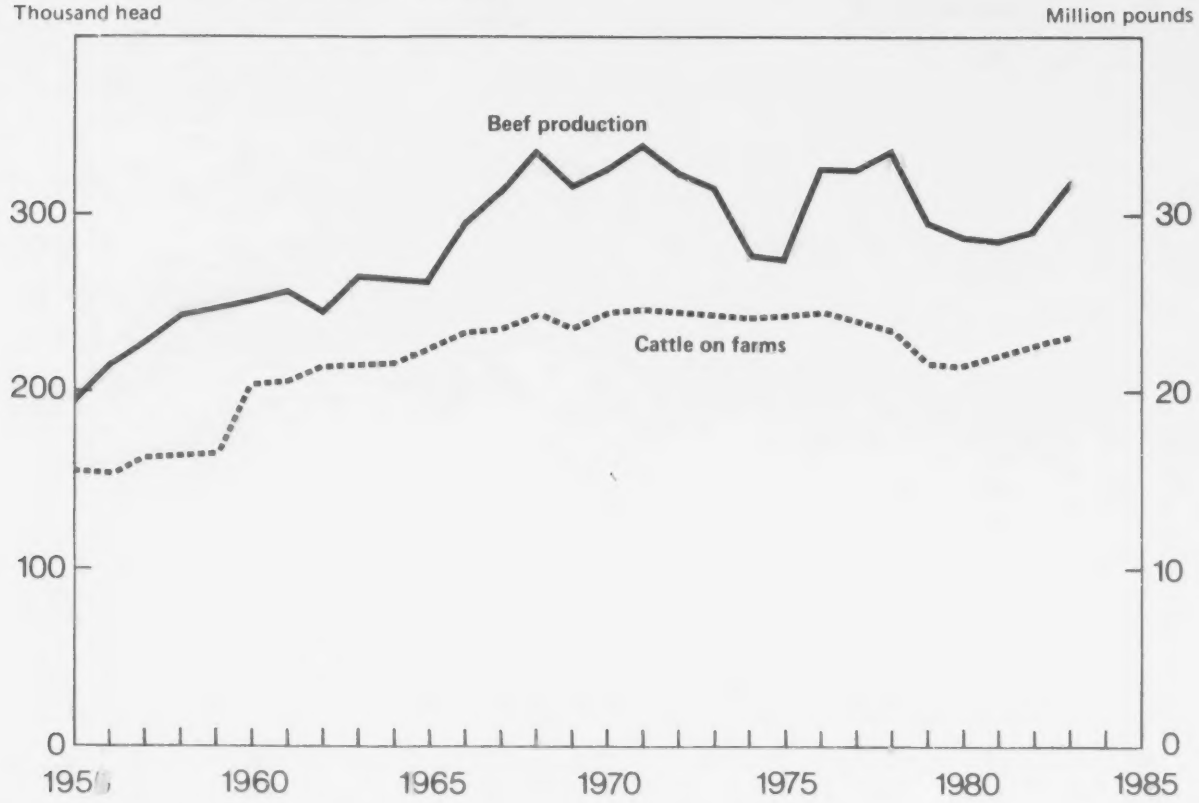
The State's poultry industry provides Hawaii with farm fresh eggs and broilers. Although there are commercial egg producers on four of the major islands 85 percent of the laying flock is located on 11 farms on the Island of Oahu. In recent years Hawaii's layers have supplied between 75-90 percent of the State's fresh egg requirements, with the balance coming from the mainland. The broiler industry, which has been increasing its share of the market in recent years, supplies 20-25 percent of the State's needs.



SWINE INDUSTRY

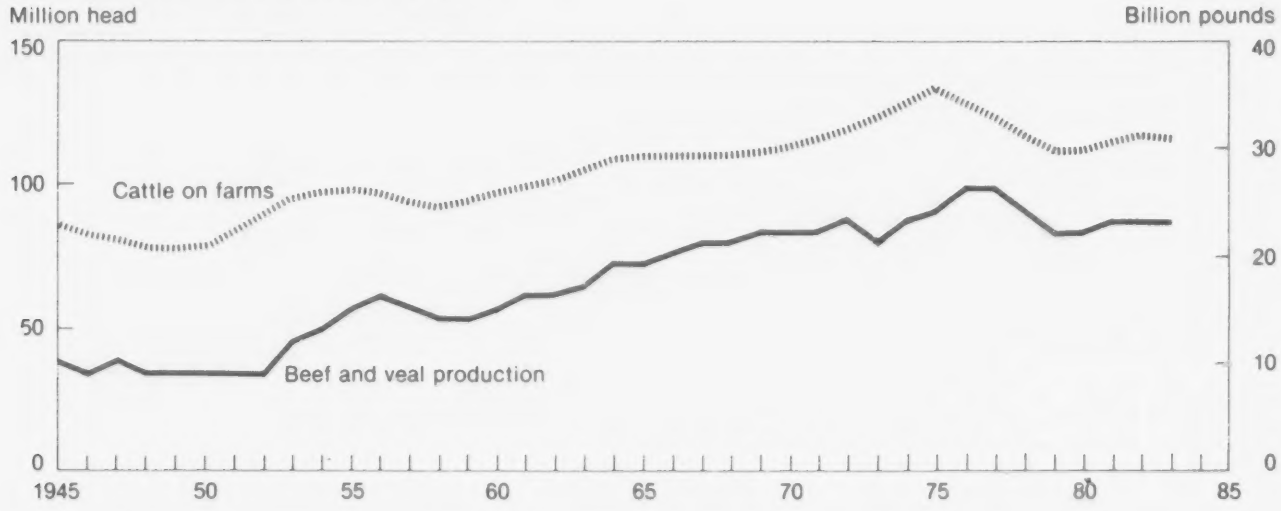
Swine production in Hawaii is typically a specialized, intensive, family-owned and operated enterprise. The center of pork production in the State, where nearly three-fifths of the inventory is located, is in the Waianae area on leeward Oahu. The local industry supplies a little less than 25 percent of the total unprocessed pork consumed in the State. Virtually all of this pork is marketed as fresh pork (hot pork) which is preferred by certain clientele. Local production has been relatively static over the past decade with the increase in consumption being met by imported frozen and chilled pork. The number of producers has been decreasing over the years with the trend to larger operations. In the future, producers will continue to face the problems of increasing feed and labor costs and urban pressures for suitable land.

Hawaii Cattle Numbers and Beef Production



HARS

U.S. Cattle Numbers and Beef Production



1983 forecast. Cattle and calves on farms January 1

USDA

CATTLE AND CALVES: January 1 inventory by sex classes and weight, by islands, 1980-84

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replacements	Milk cow replacements	Other			
	1,000 head										
STATE [1]											
1980..	213	96	83	13	39	16	7	16	25	7	46
1981..	220	93	80	13	42	19	7	16	23	7	55
1982..	228	93	80	13	46	21	8	17	27	8	54
1983..	230	95	83	12	41	17	8	16	29	8	57
1984..	**226**	**93**	**81**	**12**	**45**	**20**	**7**	**18**	**26**	**7**	**55**
HAWAII											
1980..	121.0	57.9	56.4	1.5	22.8	11.5	4.0	7.3	11.4	4.6	24.3
1981..	127.2	53.8	52.2	1.6	24.8	13.9	3.0	7.9	10.6	5.0	33.0
1982..	132.3	54.8	53.1	1.7	26.3	15.8	3.3	7.2	11.6	5.4	34.2
1983..	133.3	57.2	55.7	1.5	24.4	12.3	4.0	8.1	12.3	5.3	34.1
1984..	**135.8**	**56.6**	**55.1**	**1.5**	**27.1**	**15.4**	**3.1**	**8.6**	**12.5**	**4.8**	**34.8**
KAUAI											
1980..	18.1	6.9	6.4	.5	2.9	1.5	.2	1.2	2.0	.5	5.8
1981..	18.4	7.9	7.4	.5	2.3	1.1	.2	1.0	1.7	.5	6.0
1982..	17.0	7.2	6.8	.4	2.6	1.2	.2	1.2	1.9	.5	4.8
1983..	18.3	7.0	6.5	.5	3.2	1.3	.3	1.6	2.7	.4	5.0
1984..	**16.0**	**6.3**	**5.8**	**.5**	**2.9**	**1.4**	**.2**	**1.3**	**2.2**	**.4**	**4.2**
MAUI											
1980..	36.0	16.5	15.3	1.2	6.2	2.5	.5	3.2	4.6	1.1	7.6
1981..	38.7	16.3	15.1	1.2	6.8	3.1	.5	3.2	4.7	1.2	9.7
1982..	39.5	16.0	14.9	1.1	7.4	3.0	.5	3.9	5.6	1.2	9.3
1983..	36.3	15.7	14.6	1.1	5.3	2.4	.6	2.3	3.5	1.4	10.4
1984..	**35.0**	**15.9**	**14.9**	**1.0**	**5.7**	**2.3**	**.6**	**2.8**	**3.4**	**1.3**	**8.7**
MOLOKAI/LANAI											
1980..	6.5	3.6	3.6	0	.6	.4	.1	.1	.4	.2	1.7
1981..	7.2	3.8	3.8	0	.8	.4	0	.4	.5	.2	1.9
1982..	6.5	3.7	3.7	0	.5	.3	0	.2	.2	.2	1.9
1983..	6.4	3.7	3.7	0	.7	.4	0	.3	.4	.2	1.4
1984..	**5.9**	**3.5**	**3.5**	**0**	**.4**	**.3**	**0**	**.1**	**.2**	**.2**	**1.6**
OAHU											
1980..	31.4	11.6	1.7	9.9	6.5	.3	1.7	4.5	6.3	.2	6.8
1981..	28.5	11.6	1.7	9.9	6.9	.3	3.4	3.2	5.3	.2	4.5
1982..	32.7	11.3	1.8	9.5	9.2	.5	4.0	4.7	7.8	.2	4.2
1983..	35.7	11.7	2.4	9.3	7.6	.6	3.3	3.7	10.2	.4	5.8
1984..	**33.3**	**11.0**	**1.6**	**9.4**	**8.7**	**.3**	**3.3**	**5.1**	**8.1**	**.2**	**5.3**

* = Less than 500.
[1] State totals may not add due to rounding.

CATTLE: Number of operations, January 1, by size group, by islands, 1979-83[1]

Year	Hawaii		Kauai/Niihau		Maui		Molokai		Oahu		State	
	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle
	Number											
1979.....	355	190	155	70	190	80	15	10	85	50	800	400
1980.....	360	210	150	80	190	90	20	10	80	50	800	440
1981.....	350	195	140	70	175	80	15	10	70	45	750	400
1982.....	340	190	140	70	180	85	20	10	70	45	750	400
1983.....	**335**	**180**	**140**	**65**	**185**	**80**	**20**	**10**	**70**	**45**	**750**	**380**

[1] Difference between "Total" and "20+" is operations having 1-19 head of cattle (dairy and/or beef).

CATTLE AND CALVES: Number sold, pounds, price, and value, by islands, 1979-83

Year	Number sold [1]	Pounds sold (live weight) [2]	Farm price (live weight) [3]	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
		STATE		
1979	60	55,015	51.50	28,356
1980	55	52,475	53.50	28,074
1981	56	52,215	54.40	28,405
1982	56	52,910	52.20	27,619
1983	**60**	**59,100**	**49.60**	**29,308**
		HAWAII		
1979	37.0	32,971	52.50	17,323
1980	34.5	33,153	54.20	17,973
1981	35.5	33,113	54.50	18,059
1982	37.7	36,211	52.20	18,907
1983	**38.0**	**38,188**	**49.30**	**18,831**
		KAUAI		
1979	4.8	4,582	46.60	2,137
1980	6.0	5,765	54.10	3,118
1981	4.6	4,266	53.80	2,295
1982	3.9	3,629	52.70	1,913
1983	**4.5**	**4,143**	**51.60**	**2,139**
		MAUI		
1979	12.3	11,553	51.70	5,971
1980	10.6	9,510	52.90	5,033
1981	10.3	9,161	55.30	5,067
1982	10.0	8,626	53.40	4,603
1983	**11.8**	**10,850**	**52.10**	**5,655**
		MOLOKAI		
1979	2.5	2,377	50.80	1,207
1980	1.3	1,124	48.70	547
1981	2.4	2,352	56.60	1,331
1982	2.7	2,710	53.10	1,440
1983	**2.3**	**2,446**	**50.60**	**1,238**
		OAHU		
1979	3.4	3,532	48.60	1,718
1980	2.6	2,923	48.00	1,403
1981	3.2	3,323	49.70	1,653
1982	1.7	1,734	43.60	756
1983	**3.4**	**3,473**	**41.60**	**1,445**

[1] Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves; but, excludes interfarm sales. State totals may not add due to rounding.
[2] Excludes custom slaughter for use on farms where produced.
[3] Prices are equivalent delivered slaughterhouse for sales on island of production and delivered shippers' dock for interisland and out-of-State sales.

CATTLE: Number of feedlot slaughter cattle sold, pounds, price, and value, by islands, 1979-83 [1]

Year	Number sold [2]	Pounds sold (live weight) [3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
		STATE		
1979	30.3	30,188	56.40	17,031
1980	26.8	27,592	59.80	16,486
1981	29.2	29,449	60.10	17,711
1982	29.4	30,428	57.90	17,624
1983	**31.9**	**35,408**	**54.90**	**19,439**
		HAWAII		
1979	18.8	18,651	56.50	10,538
1980	17.6	18,439	59.50	10,971
1981	20.2	20,572	59.90	12,323
1982	22.0	23,131	57.80	13,370
1983	**22.8**	**25,669**	**54.60**	**14,015**
		KAUAI/NIIHAU		
1979	1.6	1,621	53.80	872
1980	2.8	2,851	59.80	1,706
1981	1.0	1,075	59.10	635
1982	.9	991	55.70	552
1983	**.9**	**992**	**52.50**	**521**
		MAUI		
1979	7.4	7,452	56.60	4,218
1980	5.3	5,149	60.60	3,120
1981	5.5	5,169	61.40	3,174
1982	4.4	3,993	60.50	2,416
1983	**5.8**	**5,871**	**57.50**	**3,376**
		MOLOKAI		
1979	1.5	1,477	56.20	830
1980	.4	413	59.30	245
1981	1.7	1,790	59.50	1,065
1982	1.9	2,058	55.10	1,134
1983	**1.6**	**1,828**	**52.80**	**965**
		OAHU		
1979	1.0	987	58.10	573
1980	.7	740	60.00	444
1981	.8	843	61.00	514
1982	.2	255	59.60	152
1983	**.8**	**1,048**	**53.60**	**562**

[1] Animals fattened on grain or other concentrates which produce a carcass expected to grade good or better.
[2] Includes custom slaughter for home use on farms where produced but excludes interfarm sales.
[3] Excludes custom slaughter for use on farms where produced.

CATTLE: Number of range and other slaughter cattle sold, pounds, price, and value, by islands, 1979-83 [1]

Year	Number sold [2]	Pounds sold (live weight) [3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
		STATE		
1979	29.7	24,827	45.60	11,325
1980	28.2	24,883	46.60	11,588
1981	26.8	22,766	47.00	10,694
1982	26.6	22,482	44.50	9,995
1983	**28.1**	**23,692**	**41.70**	**9,869**
		HAWAII		
1979	18.2	14,320	47.40	6,785
1980	16.9	14,714	47.60	7,002
1981	15.3	12,541	45.70	5,736
1982	15.7	13,080	42.30	5,537
1983	**15.2**	**12,519**	**38.50**	**4,816**
		KAUA!/NIIHAU		
1979	3.2	2,961	42.70	1,265
1980	3.2	2,914	48.40	1,412
1981	3.6	3,191	52.00	1,660
1982	3.0	2,638	51.60	1,361
1983	**3.6**	**,151**	**51.30**	**1,618**
		MAUI		
1979	4.9	4,101	42.70	1,753
1980	5.3	4,361	43.90	1,913
1981	4.8	3,992	47.40	1,893
1982	5.6	4,633	47.20	2,187
1983	**6.0**	**4,979**	**45.80**	**2,279**
		MOLOKAI		
1979	1.0	900	41.90	377
1980	.9	711	42.50	302
1981	.7	562	47.30	266
1982	.8	652	46.90	306
1983	**.7**	**618**	**44.20**	**273**
		OAHU		
1979	2.4	2,545	45.00	1,145
1980	1.9	2,183	43.90	959
1981	2.4	2,480	45.90	1,139
1982	1.5	1,479	40.80	604
1983	**2.6**	**2,425**	**36.40**	**883**

[1] Animals fattened primarily on grass and other roughage; may include some supplementary feeding of grain. Dairy cattle; calves included.
[2] Includes custom slaughter for home use on farms where produced but excludes interfarm sales.
[3] Excludes custom slaughter for use on farms where produced.

CATTLE: Commercial slaughter and marketings, by class, State of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
Commercial slaughter [1]													
Number of head -- 1,000 head [2]													
1979...	5.2	4.4	4.6	4.3	4.7	4.1	4.0	4.4	4.4	4.5	4.6	4.8	54.0
1980...	4.8	4.4	4.6	4.4	4.7	4.5	4.8	4.1	4.3	4.1	3.7	4.8	53.2
1981...	4.0	3.9	4.6	4.4	3.7	4.5	4.7	4.9	5.2	5.1	4.6	5.2	54.6
1982...	4.6	4.1	4.6	4.6	4.6	4.4	4.1	4.5	4.8	4.6	4.7	4.5	54.0
1983...	**4.5**	**4.5**	**5.5**	**4.7**	**4.8**	**4.8**	**4.5**	**5.1**	**4.5**	**4.2**	**4.3**	**4.7**	**56.0**
Dressed weight -- 1,000 pounds													
1979...	2,713	2,251	2,365	2,253	2,447	2,175	2,144	2,377	2,335	2,424	2,472	2,503	28,459
1980...	2,512	2,352	2,460	2,441	2,468	2,424	2,522	2,173	2,273	2,150	1,942	2,483	28,200
1981...	2,032	2,026	2,394	2,285	1,910	2,344	2,418	2,511	2,720	2,646	2,351	2,676	28,313
1982...	2,342	2,055	2,334	2,392	2,320	2,298	2,129	2,377	2,699	2,506	2,576	2,499	28,527
1983...	**2,488**	**2,490**	**3,060**	**2,584**	**2,662**	**2,610**	**2,441**	**2,895**	**2,573**	**2,408**	**2,419**	**2,651**	**31,280**
Marketings [3]													
Feedlot steers and heifers, dressed weight -- 1,000 pounds													
1979...	1,713	1,415	1,282	1,167	1,255	1,302	1,210	1,254	1,449	1,474	1,401	1,651	16,573
1980...	1,669	1,497	1,374	1,473	1,271	1,229	1,285	1,098	1,063	1,077	924	1,188	15,148
1981...	1,137	951	1,170	1,188	902	1,322	1,410	1,563	1,750	1,672	1,426	1,677	16,168
1982...	1,521	1,234	1,354	1,436	1,412	1,254	1,209	1,337	1,635	1,397	1,441	1,475	16,705
1983...	**1,560**	**1,617**	**1,825**	**1,449**	**1,843**	**1,599**	**1,577**	**1,878**	**1,547**	**1,469**	**1,480**	**1,595**	**19,439**
Range steers and heifers, dressed weight -- 1,000 pounds													
1979...	503	372	493	460	508	449	475	530	494	519	568	432	5,803
1980...	434	530	579	579	601	635	718	624	632	601	627	575	7,135
1981...	460	706	698	508	461	623	584	546	482	532	450	453	6,503
1982...	427	359	458	580	467	612	501	508	545	581	611	604	6,253
1983...	**562**	**515**	**639**	**440**	**463**	**545**	**417**	**523**	**499**	**491**	**493**	**631**	**6,218**
Cows, dressed weight -- 1,000 pounds													
1979...	485	469	547	591	666	427	455	570	395	416	498	439	5,958
1980...	427	325	505	371	598	588	504	453	578	472	410	465	5,696
1981...	383	291	420	479	483	352	369	361	426	361	425	441	4,791
1982...	319	380	428	304	400	365	379	485	464	434	430	384	4,772
1983...	**341**	**330**	**534**	**553**	**299**	**443**	**413**	**453**	**452**	**416**	**400**	**430**	**5,064**
Bulls, dressed weight -- 1,000 pounds													
1979...	83	65	113	105	88	67	74	93	68	86	90	59	991
1980...	55	73	75	91	71	45	88	70	73	74	49	66	830
1981...	84	110	138	142	96	80	88	73	94	113	82	104	1,204
1982...	119	126	137	115	84	110	83	90	98	138	138	80	1,318
1983...	**83**	**87**	**121**	**201**	**116**	**82**	**93**	**100**	**134**	**91**	**104**	**52**	**1,264**

[1] Includes custom slaughter for home use. To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] Excludes custom slaughter for home use and calves shipped out-of-State, but includes on farm sales.

CATTLE: Farm price, by class, State of Hawaii, 1979-83 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
	Feedlot steers and heifers, dressed weight -- Cents per pound												
1979...	88.0	95.0	105.5	110.5	113.5	108.0	106.0	101.5	105.0	102.5	102.0	102.5	102.5
1980...	107.0	104.5	108.5	106.0	108.0	107.0	110.5	110.5	111.0	111.0	110.0	109.5	108.5
1981...	110.5	110.0	107.5	107.5	114.0	113.5	114.5	110.0	109.5	108.0	105.5	106.5	109.5
1982...	104.5	105.5	107.5	110.0	113.0	114.0	108.0	106.5	104.5	97.5	99.0	97.0	105.5
1983...	98.5	98.0	103.5	109.5	107.5	105.5	102.5	98.0	93.5	94.0	92.5	95.5	100.0
	Range steers and heifers, dressed weight -- Cents per pound												
1979...	73.5	78.5	85.5	87.0	87.5	87.5	85.0	82.0	87.5	83.0	84.0	82.5	83.5
1980...	87.0	89.0	89.5	88.0	91.5	90.5	94.0	90.5	90.0	90.0	89.5	91.0	90.0
1981...	94.0	90.5	88.0	91.0	94.0	92.5	95.0	95.0	93.5	92.5	90.5	92.5	92.5
1982...	98.5	95.5	97.5	99.0	93.0	93.0	88.0	87.5	86.5	87.0	78.5	81.0	90.0
1983...	86.0	86.0	84.5	88.0	87.5	86.5	84.5	85.5	86.5	85.0	87.0	87.0	86.0
	Cows, dressed weight -- Cents per pound												
1979...	64.0	72.0	77.5	80.5	83.0	82.0	80.5	78.0	76.0	78.0	79.0	78.0	77.5
1980...	77.5	76.5	77.5	79.0	78.5	77.5	79.0	78.5	80.5	79.0	77.5	78.5	78.5
1981...	79.0	80.5	77.5	77.0	78.0	77.0	77.5	78.0	76.0	76.0	75.0	74.5	77.0
1982...	76.0	73.5	73.5	73.5	71.0	74.0	69.0	69.5	69.5	70.5	66.5	66.5	71.0
1983...	66.0	65.5	65.0	65.0	64.0	66.0	65.5	63.5	62.0	61.5	62.0	61.5	64.0
	Bulls, dressed weight -- Cents per pound												
1979...	70.0	76.0	82.5	85.5	89.0	84.0	86.0	82.5	81.0	82.5	82.5	82.5	82.0
1980...	82.5	85.5	85.0	84.5	86.0	84.5	85.5	84.0	83.5	85.0	84.0	83.0	84.5
1981...	83.5	84.0	83.5	83.5	83.5	83.0	83.0	82.5	82.5	83.0	83.0	82.5	83.0
1982...	81.0	80.0	79.5	80.0	79.5	77.0	79.0	78.5	76.5	77.5	75.0	76.0	78.5
1983...	73.0	74.0	74.0	73.0	73.0	75.5	73.5	72.0	72.0	73.0	71.5	73.0	73.0
	All cattle, dressed weight -- Cents per pound												
1979...	80.5	87.5	94.5	92.5	99.5	98.5	96.0	91.5	96.0	94.0	93.0	95.0	93.5
1980...	98.5	97.0	97.5	97.5	96.5	91.5	99.0	98.0	97.5	98.0	96.5	98.0	97.5
1981...	100.0	98.0	95.0	96.0	99.0	101.5	103.0	101.5	101.0	99.5	96.5	98.0	99.0
1982...	98.5	96.5	98.0	101.5	101.0	100.5	95.5	94.0	94.5	89.5	88.0	88.0	95.0
1983...	90.5	90.5	92.0	93.5	98.0	94.0	92.5	89.5	86.0	86.0	85.5	87.5	90.5

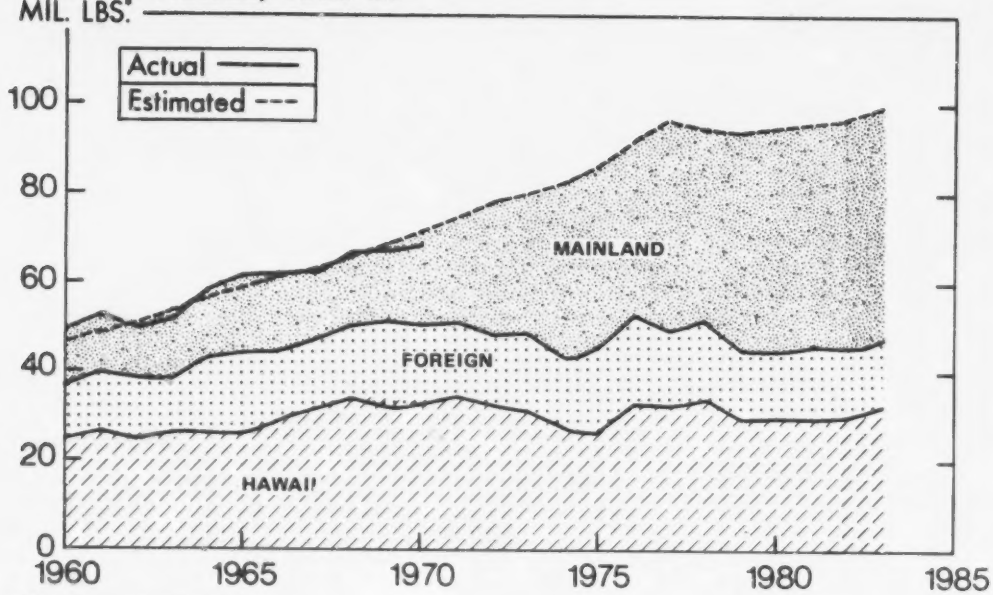
[1] Prices are for commercial slaughter cattle.

CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 1979-83

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
	1,000 head						
1979...	215	66	1	60	1	8	213
1980...	213	72	*	55	1	9	220
1981...	220	72	*	56	1	7	228
1982...	228	71	*	56	2	11	230
1983...	230	70	*	60	2	12	226

* = Less than 50.

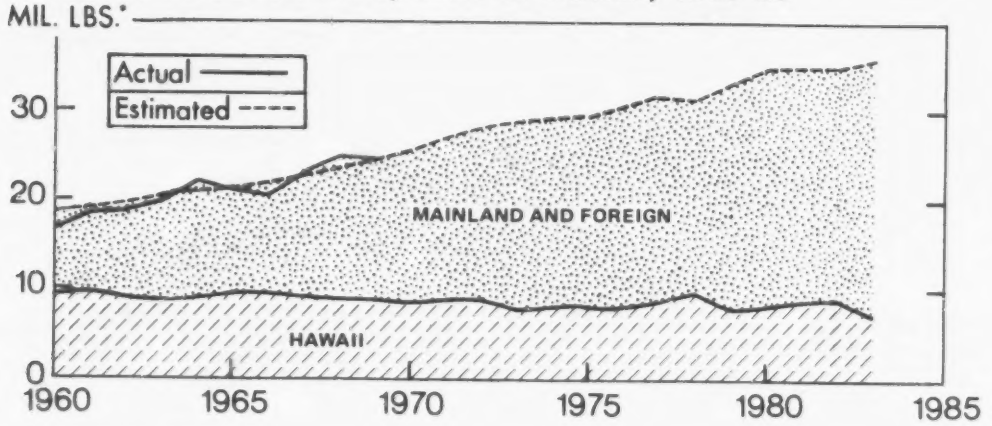
MARKET SUPPLY: Beef and Veal, State of Hawaii, 1960-83



*Carcass-weight equivalent.

HARS

MARKET SUPPLY: Pork, State of Hawaii, 1960-83



*Carcass-weight equivalent.

HARS

MARKET SUPPLY: Beef and veal, pork, State of Hawaii, 1973-83

Year	Beef and veal				Pork			
	Mainland	Foreign	Hawaii [1]	Total [2]	Mainland	Foreign	Hawaii	Total [2]
	1,000 pounds (carcass weight equivalent)							
1973..	31,054	16,910	31,013	78,977	21,179	105	7,433	28,717
1974..	40,237	15,636	27,467	83,340	21,795	24	7,953	29,772
1975..	41,473	17,756	27,000	86,229	21,543	3	7,910	29,456
1976..	39,839	20,414	32,320	92,573	23,287	4	7,781	31,072
1977..	44,645	17,493	32,325	94,463	22,399	2	8,762	31,163
1978..	43,553	17,146	33,544	94,243	22,076	0	9,869	31,945
1979..	47,453	16,030	29,325	92,808	25,796	45	7,785	33,626
1980..	50,348	15,202	28,809	94,359	26,685	133	8,012	34,830
1981..	49,622	16,504	28,666	94,792	25,827	97	8,708	34,632
1982..	51,709	16,273	29,048	97,030	26,392	27	8,557	34,976
1983..	53,259	14,555	31,985	99,799	27,505	802	7,693	36,000

[1] Excludes slaughter cattle and calves shipped out-of-State.
[2] After 1971 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure.

MILK: Number of operations, number of milk cows, production, sales, price, and value, by islands, 1979-83

Year	Operations [1]		Annual average milk cows	Milk per cow	Production [2]	Sold [2]	Average price	Value of sales
	Total	10+ milk cows						
	Number			Pounds	Million pounds		Dollars per hundredweight	1,000 dollars
STATE								
1979...	70	25	12,800	11,719	150.0	147.3	16.90	24,894
1980...	70	24	13,000	11,692	152.0	149.4	18.12	27,071
1981...	70	24	12,700	11,811	150.0	147.9	20.50	30,320
1982...	70	23	12,500	11,520	144.0	106.4	20.59	21,908
1983...	**70**	**23**	**12,500**	**11,920**	**149.0**	**143.7**	**20.09**	**28,869**
HAWAII/KAUAI/MAUI [3]								
1979...	46	6	3,000	10,635	31.9	29.8	16.50	4,919
1980...	46	6	3,200	10,031	32.1	30.0	17.84	5,352
1981...	46	7	3,100	10,710	33.2	31.3	19.76	6,184
1982...	46	7	3,100	10,710	33.2	30.8	20.20	6,221
1983...	**46**	**7**	**3,100**	**10,840**	**33.6**	**31.5**	**20.25**	**6,373**
OAHU								
1979...	24	19	9,800	12,050	118.1	117.5	17.00	19,975
1980...	24	18	9,800	12,235	119.9	119.4	18.19	21,719
1981...	24	17	9,600	12,167	116.8	116.6	20.70	24,136
1982...	24	16	9,400	11,785	110.8	75.6	20.75	15,687
1983...	**24**	**16**	**9,400**	**12,275**	**115.4**	**112.2**	**20.05**	**22,496**

[1] At end of year. Difference between "Total" and "10+" is operations having 1-9 milk cows.
[2] Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.
[3] Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

MILK-FEED RATIO, State of Hawaii, 1979-83 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Pounds											
1979...	1.84	1.77	1.77	1.75	1.72	1.78	1.75	1.82	1.86	1.83	1.82	1.85
1980...	1.82	1.76	1.72	1.71	1.69	1.64	1.69	1.75	1.75	1.67	1.63	1.58
1981...	1.51	1.68	1.64	1.65	1.64	1.62	1.67	1.66	1.79	1.83	1.82	1.78
1982...	1.81	1.78	1.62	1.73	1.77	1.72	1.66	1.72	1.79	1.79	1.82	1.70
1983...	**1.74**	**1.77**	**1.76**	**1.69**	**1.64**	**1.52**	**1.52**	**1.56**	**1.66**	**1.67**	**1.64**	**1.57**

[1] Pounds of 20-percent dairy feed equal in value to 1 pound of whole milk.

MILK: Number of cows, milk production, and price, State of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
	Average number of milk cows on hand during month -- 1,000 head												
1979..	13.0	12.8	12.7	12.6	12.5	12.5	12.6	12.8	13.0	12.9	12.7	13.1	12.8
1980..	13.0	13.0	13.0	12.9	12.8	12.9	13.0	13.0	13.1	13.1	13.0	13.1	13.0
1981..	13.0	12.9	12.9	12.7	12.7	12.7	12.5	12.5	12.5	12.6	12.7	12.7	12.7
1982..	12.6	12.6	12.5	12.4	12.4	12.3	12.4	12.4	12.4	12.4	12.4	12.4	12.5
1983..	12.5	12.5	12.5	12.5	12.6	12.6	12.6	12.4	12.4	12.5	12.4	12.4	12.5
	Average monthly production per all cows in herd -- Pounds												
1979..	985	910	1,020	1,010	1,060	1,025	1,055	990	890	930	940	945	11,719
1980..	975	955	1,040	1,025	1,095	1,025	990	955	895	915	900	935	11,692
1981..	970	905	1,015	1,030	1,070	1,000	1,030	990	935	950	930	975	11,811
1982..	975	905	1,015	1,015	1,040	975	985	950	910	960	910	935	11,520
1983..	975	920	1,050	1,015	1,055	1,000	1,025	1,010	960	960	945	1,015	11,920
	Milk production -- Million pounds												
1979..	12.8	11.6	12.9	12.7	13.2	12.8	13.3	12.7	11.6	12.1	11.9	12.4	150
1980..	12.7	12.4	13.5	13.2	14.0	13.2	12.9	12.4	11.7	12.0	11.7	12.3	152
1981..	12.6	11.7	13.1	13.1	13.6	12.7	12.9	12.4	11.7	12.0	11.8	12.4	150
1982..	12.3	11.4	12.7	12.6	12.9	12.0	12.2	11.8	11.3	11.9	11.3	11.6	144
1983..	12.2	11.5	13.1	12.7	13.3	12.6	12.9	12.5	11.9	12.0	11.7	12.6	149
	Average price for milk sold to plants -- Dollars per hundredweight												
1979..	16.31	16.36	16.32	16.25	16.14	16.51	16.97	17.37	17.73	17.71	17.52	17.78	16.90
1980..	17.84	17.64	17.58	17.55	17.28	16.82	17.76	18.84	19.27	19.19	19.18	18.91	18.12
1981..	19.24	20.97	20.49	20.57	20.56	19.84	20.05	20.32	21.05	21.10	20.95	20.46	20.50
1982..	20.87	20.90	19.04	20.32	20.78	20.63	20.36	20.59	20.99	21.00	20.97	20.45	20.59
1983..	20.92	20.75	20.67	20.26	20.10	18.66	18.57	19.05	20.69	20.88	20.86	19.96	20.09

HONEY: Number of operations, colonies, honey and beeswax production, price, and value, State of Hawaii, 1979-83

Year	Operations	Number of colonies	Yield per colony (honey)	Production		Average price [1]		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey	Beeswax
	Number	Thousands	Pounds	1,000 pounds		Cents per pound		1,000 dollars	
1979..	25	7	130	910	15	47.2	180.0	430	27
1980..	27	7	123	861	20	49.6	172.0	427	34
1981..	28	7	125	875	16	53.3	186.0	466	30
1982..	30	8	115	920	14	56.5	210.0	520	29
1983..	27	9	145	1,305	21	58.1	230.0	758	48

[1] Average of unprocessed bulk and processed packaged honey sold at wholesale and processed packaged honey sold at retail by farmers.

HOGS AND PIGS: December 1 inventory by classes and weight, by islands, 1979-83

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
	1,000 head						
				STATE [1]			
1979...	53	8	45	22	12	9	2
1980...	57	9	48	22	13	10	3
1981...	55	8	47	22	13	9	3
1982...	49	7	42	19	12	8	3
1983...	48	7	41	19	11	8	3
				HAWAII			
1979...	5.7	.9	4.8	2.6	1.2	.8	.2
1980...	6.5	1.1	5.4	2.8	1.7	.8	.1
1981...	4.8	.7	4.1	2.1	1.3	.6	.1
1982...	3.8	.6	3.2	1.7	.9	.5	.1
1983...	3.2	.5	2.7	1.2	1.0	.4	.1
				KAUAI			
1979...	3.2	.4	2.8	1.3	.8	.4	.3
1980...	4.5	.8	3.7	1.7	1.0	.7	.3
1981...	5.2	.8	4.4	2.4	1.2	.6	.2
1982...	4.3	.7	3.6	1.8	1.2	.5	.1
1983...	3.5	.6	2.9	1.6	.9	.3	.1
				MAUI			
1979...	9.0	1.4	7.6	3.5	1.9	1.8	.4
1980...	9.9	1.5	8.4	3.3	2.6	1.7	.8
1981...	10.1	1.5	8.6	3.5	2.7	1.8	.6
1982...	8.2	1.2	7.0	3.1	2.0	1.4	.5
1983...	8.7	1.3	7.4	3.3	2.2	1.4	.5
				MOLOKAI/LANAI			
1979...	.9	.2	.7	.4	.2	.1	*
1980...	.8	.2	.6	.3	.1	.1	.1
1981...	.8	.2	.6	.4	.1	.1	*
1982...	.6	.1	.5	.2	.2	.1	*
1983...	.9	.2	.7	.5	.1	.1	*
				OAHU			
1979...	34.2	5.5	28.7	14.0	7.7	5.8	1.2
1980...	35.4	5.6	29.8	13.8	7.6	6.2	2.2
1981..	34.5	5.0	29.5	13.5	7.9	6.3	1.8
1982...	32.1	4.5	27.6	12.6	7.8	5.3	1.9
1983...	31.7	4.4	27.3	12.3	7.2	5.7	2.1

* - Less than 500.
[1] State totals may not add due to rounding.

HOGS: Number of operations, pig crop, number and pounds sold, price, and value, by islands, 1979-83

Year	Number of operations [1]		Pig crop [2]		Number sold [3]	Pounds sold (live weight) [4]	Farm price (live weight)	Value of sales
	Total	10+	December-May	June-November				
	----- Number -----		---------- 1,000 head ----------			1,000 pounds	Dollars per hundredweight	1,000 dollars
				STATE [5]				
1979...	650	470	34	37	63	10,380	67.70	7,027
1980...	650	430	39	37	63	10,683	69.80	7,457
1981...	650	420	38	40	69	11,610	72.20	8,382
1982...	650	410	35	36	67	11,409	74.20	8,465
1983...	650	430	32	35	59	10,257	75.80	7,775
				HAWAII				
1979...	80	60	3.8	4.0	6.6	1,112	70.50	784
1980...	80	60	4.1	4.1	6.8	1,239	72.00	892
1981...	70	55	3.7	3.3	7.6	1,263	75.50	954
1982...	75	60	2.6	2.8	5.4	954	79.50	758
1983...	85	50	2.7	2.8	5.4	975	80.50	785
				KAUAI				
1979...	110	70	2.3	2.7	3.7	504	77.50	391
1980...	110	60	3.6	3.6	5.6	864	78.00	674
1981...	115	60	3.6	3.8	5.4	938	79.50	746
1982...	115	60	2.9	2.8	5.3	848	80.50	683
1983...	120	50	2.3	2.8	4.9	763	83.00	633
				MAUI/MOLOKAI				
1979...	100	80	6.6	6.6	12.8	2,211	73.50	1,625
1980...	110	75	9.0	7.3	14.4	2,470	75.50	1,865
1981...	110	70	8.7	8.9	15.8	2,787	77.00	2,146
1982...	100	65	7.8	7.1	15.3	2,688	78.50	2,110
1983...	115	95	6.8	7.4	13.4	2,402	80.00	1,922
				OAHU				
1979...	360	260	21.7	23.5	40.0	6,553	64.50	4,227
1980...	350	235	22.5	21.8	36.2	6,110	66.00	4,026
1981...	355	235	22.3	23.8	40.0	6,622	68.50	4,536
1982...	360	225	21.7	23.3	41.4	6,919	71.00	4,914
1983...	330	235	19.7	21.2	35.4	6,117	72.50	4,435

[1] Difference between "Total" and "10+" is operations having 1-9 hogs; current year number of operations is preliminary.
[2] Number of pigs born during the 6-month period which were still on hand or were sold.
[3] Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers.
[4] Excludes custom slaughter for use on farms where produced and interfarm sales.
[5] State totals may not add for number of operations and pig crop due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.

HOGS: Commercial slaughter and farm price, State of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average
	Number of head -- 1,000 head [1] [2]												
1979...	3.3	3.3	3.5	3.3	3.1	3.2	3.2	2.8	2.6	3.3	3.4	4.4	39.4
1980...	2.9	3.2	3.6	3.6	3.7	3.6	3.7	3.6	3.4	3.5	3.4	4.9	43.1
1981...	3.2	3.1	3.5	3.2	3.5	3.8	3.6	3.6	3.3	3.7	3.5	4.7	42.8
1982...	3.2	3.2	3.6	3.8	3.5	3.7	3.8	3.6	3.3	3.4	3.3	4.6	43.0
1983...	**3.2**	**3.3**	**3.6**	**3.5**	**3.6**	**3.7**	**3.7**	**3.8**	**3.6**	**3.5**	**3.5**	**4.9**	**44.0**
	Pounds slaughtered -- 1,000 pounds, dressed weight [1] [3]												
1979...	436	434	471	432	397	418	441	386	344	456	482	610	5,307
1980...	401	443	519	518	526	492	524	491	476	488	486	668	6,032
1981...	447	433	484	459	518	544	525	490	466	544	501	674	6,085
1982...	463	456	521	530	490	512	516	482	442	456	477	687	6,032
1983...	**481**	**471**	**495**	**501**	**516**	**501**	**515**	**503**	**497**	**497**	**476**	**672**	**6,125**
	Farm price -- Cents per pound, dressed weight [4]												
1979...	87.0	89.5	89.5	89.0	91.0	91.5	92.5	92.0	91.5	92.0	92.5	93.5	90.0
1980...	93.0	93.0	92.5	92.5	93.0	91.5	89.5	94.5	94.5	95.0	95.0	94.5	93.0
1981...	95.0	95.5	97.0	97.0	95.0	96.0	96.0	97.5	97.5	97.5	97.5	99.0	96.5
1982...	97.0	97.5	97.5	98.0	96.5	99.0	99.0	99.5	100.5	102.0	101.0	101.0	99.0
1983...	**102.0**	**101.5**	**100.0**	**99.5**	**101.5**	**100.5**	**101.5**	**99.5**	**101.5**	**102.0**	**103.5**		**101.0**

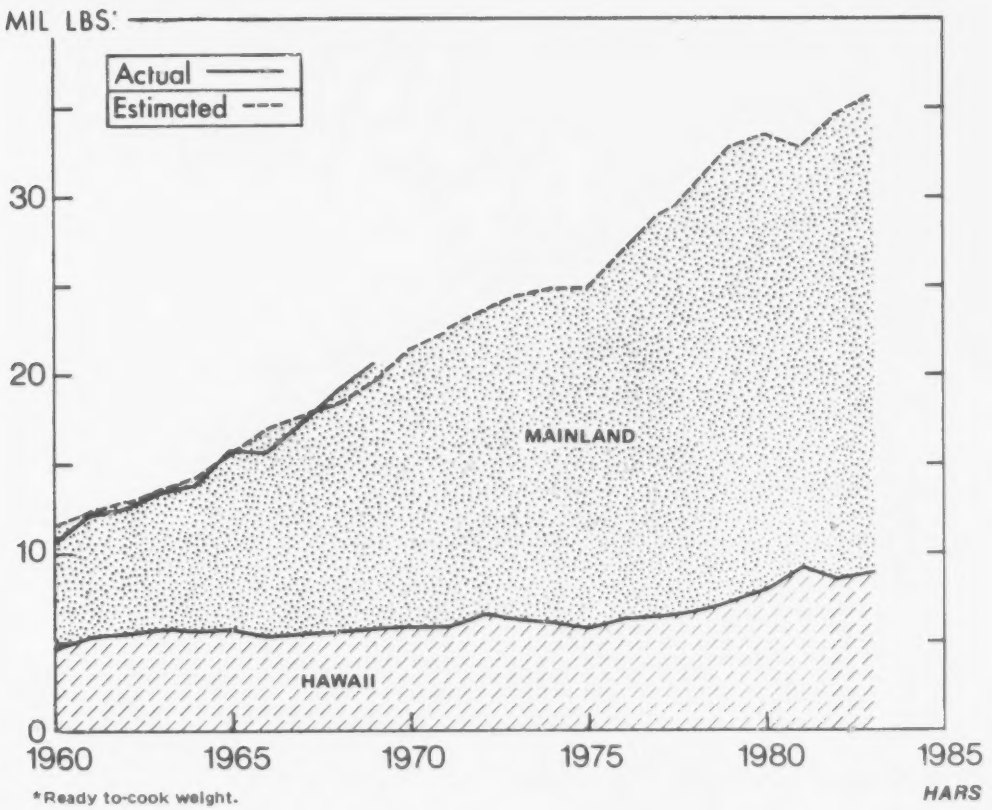
[1] Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] To convert dressed weight to live weight: Divide by 0.75 or multiply by a factor of 1.3333.
[4] Annual average price is for marketing year December-November.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 1979-83

Year	Inventory December 1 previous year	Annual pig crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory December 1
	1,000 head						
1979...	54	71	*	63	3	6	53
1980...	53	76	*	63	3	6	57
1981...	57	78	*	69	4	7	55
1982...	55	71	*	67	4	6	49
1983...	**49**	**67**	*	**59**	**3**	**6**	**48**

* = Less than 500 head.

MARKET SUPPLY: Chickens and Broilers, State of Hawaii, 1960-83

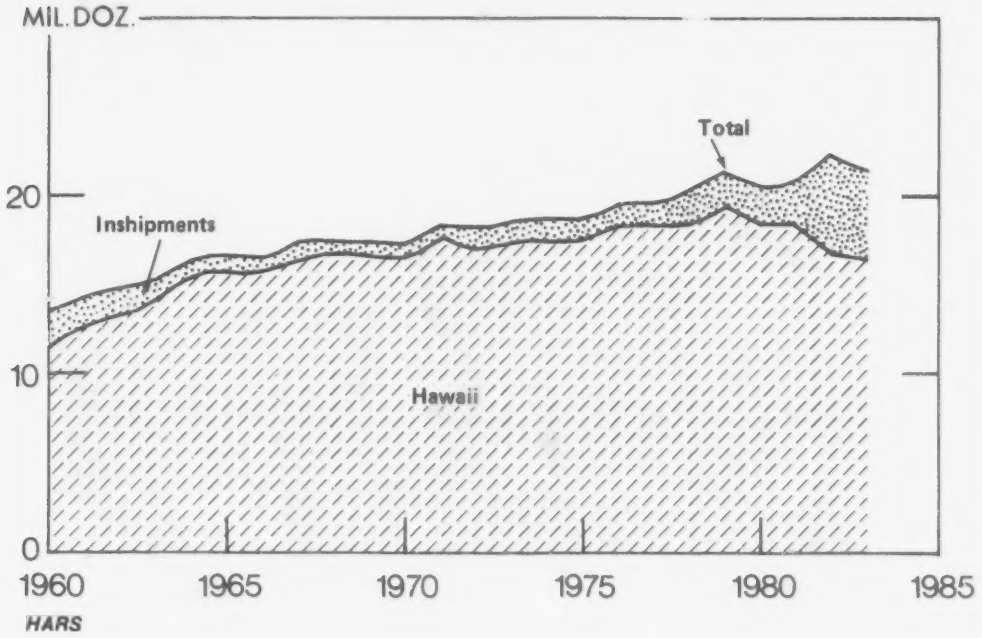


MARKET SUPPLY: Poultry meat, State of Hawaii, 1974-83

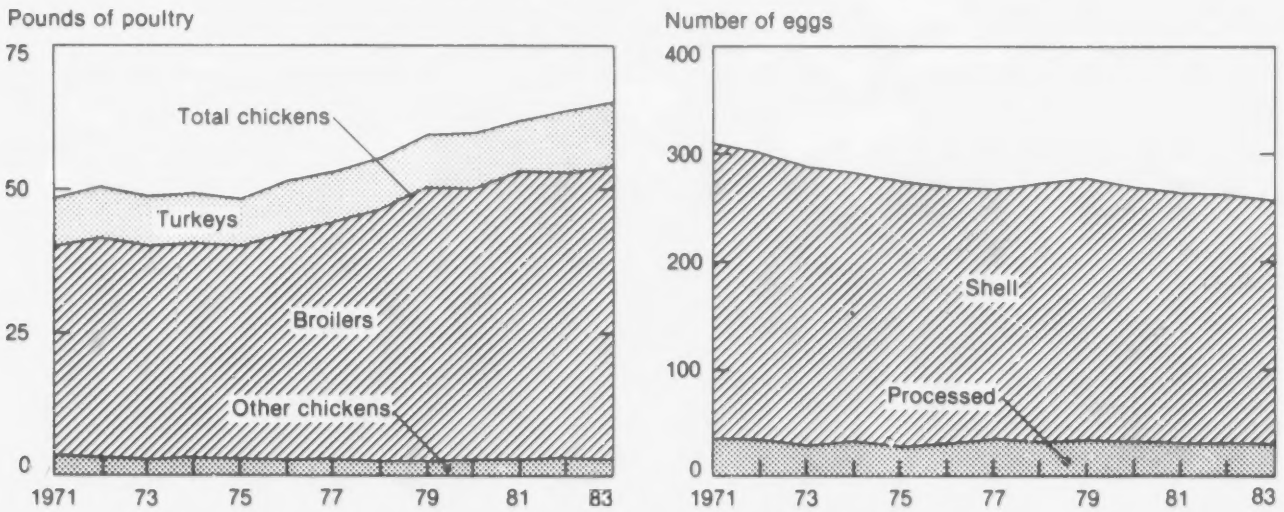
Commodity	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
	1,000 pounds (ready-to-cook weight)									
Broilers:										
Inshipments	18,981	19,242	21,016	22,643	23,682	25,795	25,455	23,850	26,357	26,932
Hawaii	4,987	4,697	5,200	5,180	5,816	5,896	6,569	7,673	7,534	8,023
Total	23,968	23,939	26,216	27,823	29,498	31,691	32,024	31,523	33,891	34,955
Other chickens:										
Hawaii	866	962	921	978	970	1,240	1,321	1,373	1,037	924
Total chickens:										
Inshipments	18,981	19,242	21,016	22,643	23,682	25,795	25,455	23,850	26,357	26,932
Hawaii	5,853	5,659	6,121	6,158	6,786	7,136	7,890	9,046	8,571	8,947
Total [1]	24,834	24,901	27,137	28,801	30,468	32,931	33,345	32,896	34,928	35,879
Turkeys:										
Inshipments	3,747	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA = Not available.
[1] Beginning 1970 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure.

MARKET SUPPLY: Eggs, State of Hawaii, 1960-83



U.S. Per Capita Consumption of Poultry and Eggs



1982 preliminary, 1983 forecast. Poultry is ready-to-cook weight. Processed eggs converted to shell equivalents. USDA

MARKET SUPPLY: Eggs, State of Hawaii, 1979-83

Commodity	1979	1980	1981	1982	1983
			1,000 dozens		
Eggs, shell:					
Inshipments	1,956	2,371	2,464	5,400	5,158
Hawaii	19,108	18,375	18,442	16,850	16,442
Total	21,064	20,746	20,906	22,250	21,600

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

CHICKENS: December 1 inventory by class, by islands, 1979-83

Year	All chickens (excluding broilers)	Number of layers			Non-laying pullets		Other chickens (excluding broilers)
		Hens 1 year +	Pullets under 1 year	Total	Over 3 months	Under 3 months	
	Thousands						
				STATE			
1979.....	1,306	658	341	999	147	160	*
1980.....	1,314	593	414	1,007	175	132	*
1981.....	1,242	538	401	939	136	167	*
1982.....	1,148	589	260	849	115	184	*
1983.....	1,140	577	352	929	106	105	*
				HAWAII/KAUAI/MAUI/MOLOKAI [1]			
1979.....	178	68	75	143	10	25	*
1980.....	196	81	66	147	24	25	*
1981.....	159	69	57	126	17	16	*
1982.....	177	83	68	151	12	14	*
1983.....	179	81	69	150	15	14	*
				OAHU			
1979.....	1,128	590	266	856	137	135	*
1980.....	1,118	512	348	860	151	107	*
1981.....	1,083	469	344	813	119	151	*
1982.....	971	506	192	698	103	170	*
1983.....	961	496	283	779	91	91	*

* = Less than 500.
[1] Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

EGG-TYPE PULLET CHICK PLACEMENTS, State of Hawaii, 1979-83 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
	1,000 chicks												
1979..	87	32	105	62	5	42	113	54	100	10	51	30	691
1980..	58	59	37	34	95	30	131	13	59	58	13	87	674
1981..	94	24	60	51	52	72	19	58	71	81	27	41	650
1982..	85	17	83	14	40	92	16	74	54	52	94	20	641
1983..	68	25	97	31	17	100	40	74	23	55	27	36	593

[1] Inshipments plus local hatch.

CHICKENS: December 1 number of operations, sales, price, and value, by islands, 1979-83 [1]

Year	Operations	Number sold	Pounds sold (live weight) [2]	Average price (live weight) [3]	Value of sales
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1979.....	60	479	1,772	15.5	275
1980.....	60	510	1,887	12.7	240
1981.....	55	530	1,961	12.4	243
1982.....	55	436	1,482	11.3	167
1983.....	**55**	**377**	**1,320**	**13.6**	**180**
			HAWAII/KAUAI/MAUI/MOLOKAI [4]		
1979.....	34	75	278	27.3	76
1980.....	34	57	202	26.7	54
1981.....	32	66	240	30.3	73
1982.....	34	66	232	35.5	82
1983.....	**36**	**72**	**243**	**33.7**	**82**
			OAHU		
1979.....	26	404	1,494	13.3	199
1980.....	26	453	1,685	11.0	186
1981.....	23	464	1,721	9.9	170
1982.....	21	370	1,250	6.8	85
1983.....	**19**	**305**	**1,077**	**9.1**	**98**

[1] Data are for December-November marketing year.
[2] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
[3] Equivalent delivered processing plant.
[4] Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

CHICKENS: Slaughter and price, State of Hawaii, 1979-83 [1]

Month	Number sold					Pounds sold (live weight) [2]					Average farm price (live weight) [3]				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	1,000 birds					1,000 pounds					Cents per pound				
December	29	42	35	28	**33**	100	162	139	93	**110**	19.0	13.5	15.0	14.0	**11.5**
January	38	44	41	39	**20**	148	164	141	137	**74**	15.0	15.0	13.5	9.0	**14.0**
February	54	39	45	46	**55**	205	149	161	144	**192**	14.0	13.0	14.0	9.0	**13.5**
March	29	27	48	37	**36**	104	102	179	131	**125**	17.5	13.0	14.5	12.0	**11.5**
April	30	35	38	33	**32**	108	132	162	128	**104**	17.0	12.5	13.0	14.0	**12.5**
May	47	42	52	19	**34**	180	159	198	62	**119**	16.5	12.5	12.5	20.5	**14.5**
June	29	16	50	38	**44**	101	54	181	133	**160**	17.0	18.0	14.0	13.5	**14.5**
July	46	37	42	50	**37**	182	127	150	176	**133**	13.5	15.0	12.0	9.5	**14.5**
August	37	37	48	31	**28**	146	135	179	100	**101**	16.5	13.5	10.0	11.5	**13.0**
September	38	49	45	59	**25**	139	195	166	190	**87**	16.5	12.5	9.5	10.0	**14.5**
October	58	91	36	16	**15**	206	317	129	58	**53**	14.0	9.0	10.5	12.0	**14.5**
November	44	51	50	40	**18**	153	191	176	130	**62**	14.0	13.0	10.0	9.0	**16.5**
Total or average	479	510	530	436	**377**	1,772	1,887	1,961	1,482	**1,320**	15.5	12.7	12.4	11.3	**13.6**

[1] Data are for December-November marketing year.
[2] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
[3] Equivalent delivered processing plant.

EGGS: December 1 number of operations, number of layers, production, sales, price, and value, by islands, 1979-83 [1]

Year	Operations with layers		Average number of layers	Average production per layer	Production [3]	Average price [4]	Value of sales
	Total [2]	100+					
	Number		1,000 birds	Eggs	Million eggs	Cents per dozen	1,000 dollars
				STATE [5]			
1979..	60	27	1,039	220	229.3	73.4	14,007
1980..	60	26	1,035	214	220.5	75.7	13,910
1981..	55	24	980	226	221.3	82.2	15,159
1982..	55	21	914	221	202.2	86.3	14,542
1983..	55	19	855	231	197.3	85.4	14,041
				HAWAII/KAUAI/MAUI/MOLOKAI [6]			
1979..	34	9	141	225	31.7	81.5	2,151
1980..	34	7	141	209	29.4	87.5	2,143
1981..	32	7	128	223	28.6	97.5	2,322
1982..	34	7	135	208	28.1	101.5	2,382
1983..	36	8	143	225	32.2	98.0	2,629
				OAHU			
1979..	26	18	898	220	197.6	72.0	11,856
1980..	26	19	894	214	191.1	74.0	11,767
1981..	23	17	852	226	192.7	80.0	12,837
1982..	21	14	779	223	174.1	84.0	12,160
1983..	19	11	712	232	165.1	83.0	11,412

[1] Annual number of layers, egg production, sales, price, and value are a December-November marketing year.
[2] Difference between "Total" and "100+" is operations having 1-99 layers.
[3] Home consumption less than 0.5 million eggs included.
[4] Equivalent delivered processing plant.
[5] Sum of island estimates may not add to State total due to rounding.
[6] Hawaii, Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

EGGS: Number of layers, production, and price, State of Hawaii, 1979-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total or average[1]
	Average number of layers on hand during month -- 1,000 layers												
1979..	1,028	1,025	1,038	1,060	1,043	1,036	1,044	1,059	1,069	1,039	1,005	1,015	1,039
1980..	1,021	1,034	1,053	1,052	1,050	1,051	1,052	1,044	1,037	1,011	997	1,014	1,035
1981..	1,021	1,023	1,006	980	967	962	973	968	953	950	945	931	980
1982..	924	918	918	932	935	926	915	912	902	889	868	838	914
1983..	**839**	**843**	**841**	**854**	**860**	**861**	**858**	**860**	**856**	**855**	**898**		**855**
	Egg production -- Million eggs[2]												
1979..	19.1	17.6	20.4	19.9	20.2	18.7	19.1	19.4	19.1	19.2	17.8	18.5	229.3
1980..	17.7	17.1	19.3	18.7	19.8	19.1	19.2	18.8	17.5	17.5	17.3	18.5	220.5
1981..	19.6	18.2	19.4	18.5	18.8	17.6	18.4	18.9	17.9	18.1	17.4	17.7	221.3
1982..	18.0	16.2	17.1	16.7	18.0	17.1	16.7	16.4	16.2	16.7	15.4	15.5	202.2
1983..	**15.8**	**14.9**	**17.4**	**16.6**	**16.9**	**16.3**	**16.8**	**17.0**	**16.5**	**16.9**	**16.7**		**197.3**
	Average farm price -- Cents per dozen[3]												
1979..	71.0	76.0	76.0	79.0	77.5	74.0	75.0	74.0	70.0	68.0	68.5	69.5	73.4
1980..	71.5	73.5	77.5	79.5	78.0	79.5	77.0	76.0	75.0	75.5	74.0	82.0	75.7
1981..	81.5	82.5	83.0	83.5	82.5	81.0	81.0	81.0	81.0	85.0	82.0	84.0	82.2
1982..	84.0	86.5	86.5	86.5	86.5	87.0	89.0	87.5	87.0	84.5	87.5	89.5	86.3
1983..	**88.0**	**87.0**	**87.0**	**87.0**	**86.0**	**84.5**	**85.0**	**84.0**	**83.5**	**83.0**	**31.0**		**85.4**

[1] Annual data are for a December-November marketing year.
[2] Annual totals may not add due to rounding.
[3] Equivalent delivered processing plant.

EGG-FEED RATIO, State of Hawaii, 1979-83[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Pounds											
1979..	7.6	8.0	7.9	8.1	7.9	7.4	7.1	7.1	6.6	6.3	6.4	6.5
1980..	6.7	6.8	7.2	7.4	7.3	7.4	7.0	6.6	6.4	6.2	5.9	6.4
1981..	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.1	6.8	7.0
1982..	7.0	6.9	6.9	6.9	7.1	7.2	7.4	7.4	7.6	7.3	7.8	7.5
1983..	**7.7**	**7.6**	**7.6**	**7.3**	**7.2**	**7.0**	**7.1**	**6.7**	**6.6**	**6.5**	**6.1**	**6.8**

[1] Number of pounds of laying feed, equivalent in value to 1 dozen eggs.

BROILER-TYPE CHICK PLACEMENTS, State of Hawaii, 1979-83[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Oct.	Nov.	Dec.	Total
	1,000 chicks												
1979..	200	134	178	184	217	153	182	221	208	245	170	175	2,267
1980..	237	190	219	252	215	241	240	215	210	223	258	268	2,768
1981..	294	238	250	286	219	251	293	208	250	220	238	297	3,044
1982..	219	335	264	245	240	251	268	216	272	271	244	299	3,124
1983..	**214**	**241**	**247**	**253**	**236**	**263**	**324**	**227**	**216**	**219**	**273**	**271**	**2,984**

[1] Inshipments plus local hatch.

BROILERS: December 1 number of operations, sales, price, and value, State of Hawaii, 1979-83 [1]

Year	Operations	Number sold [2]	Pounds sold (live weight) [2 3]	Average price (live weight) [4]	Value of sales [2]
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
1979.....	10	2,246	7,861	43.0	3,380
1980.....	10	2,576	8,758	45.0	3,941
1981.....	10	3,009	10,231	49.5	5,064
1982.....	10	3,044	10,045	50.5	5,073
1983.....	9	2,891	10,697	50.0	5,349

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of production.
[3] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.
[4] Equivalent delivered processing plant.

BROILERS: Slaughter and price, State of Hawaii, 1979-83 [1]

Month	Number sold [2]					Pounds sold (live weight) [2 3]					Average farm price (live weight) [4]				
	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983	1979	1980	1981	1982	1983
	1,000 birds					1,000 pounds					Cents per pound				
December	195	213	239	274	**251**	751	681	783	906	**922**	39.0	43.0	49.0	51.0	**51.0**
January.....	222	206	259	252	**238**	868	685	887	903	**869**	41.5	44.0	48.0	50.0	**51.0**
February.....	139	186	236	270	**226**	519	629	799	831	**840**	42.5	46.5	48.5	50.5	**50.5**
March.....	194	190	253	284	**220**	635	626	891	883	**756**	44.0	47.5	48.5	50.5	**50.5**
April.....	173	198	289	268	**208**	548	667	1,015	834	**780**	44.0	46.5	49.5	50.0	**50.5**
May	197	240	257	232	**235**	701	872	850	816	**819**	44.0	44.5	50.0	51.5	**50.5**
June.....	187	220	248	269	**355**	627	757	799	886	**1,427**	44.0	45.0	51.0	51.0	**51.0**
July	185	252	250	227	**222**	611	782	899	752	**822**	41.5	43.5	50.5	50.0	**50.0**
August	195	216	248	235	**250**	662	784	847	786	**903**	43.0	43.0	50.0	51.0	**51.0**
September.....	167	219	230	258	**229**	558	758	778	854	**844**	45.0	44.5	49.5	50.5	**50.0**
October.....	212	235	248	256	**234**	710	829	834	849	**860**	43.5	46.0	49.5	50.0	**51.0**
November	180	201	252	219	**223**	671	688	849	745	**855**	45.0	47.0	49.5	50.0	**42.5**
Total or average ..	2,246	2,576	3,009	3,044	**2,891**	7,861	8,758	10,231	10,045	**10,697**	43.0	45.0	49.5	50.5	**50.0**

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of production.
[3] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.
[4] Equivalent delivered processing plant.

BROILER-FEED RATIO, State of Hawaii, 1979-83 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Pounds											
1979...	3.5	3.6	3.6	3.6	3.4	3.4	3.7	3.7	3.5	3.4	3.5	3.3
1980...	3.4	3.5	3.7	3.5	3.4	3.4	3.2	3.0	3.0	3.1	3.0	3.1
1981...	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5
1982...	3.4	3.2	3.2	3.2	3.3	3.3	3.3	3.5	3.4	3.3	3.5	3.6
1983...	3.5	3.5	3.4	3.3	3.3	3.3	3.3	3.2	3.0	3.0	2.5	3.1

[1] Number of pounds of broiler grower equal in value to 1 pound of broiler live weight.

SEED CORN: Number of farms, acreage used for crop, acreage harvested, outshipments, and value, State of Hawaii, 1979-83

Crop year November-June	Farms	Acreage used for crop	Acreage harvested			Outshipments of seed	Value
			Nursery	Observation	Seed increase		
	Number	Acres				1,000 pounds	1,000 dollars
1979-80.....	5	510	250	100	160	290	2,100
1980-81.....	5	550	280	120	170	350	2,410
1981-82.....	5	600	250	135	215	280	2,990
1982-83.....	5	660	280	165	215	250	3,275
1983-84.....	5	680	310	100	270	330	3,100

FEED CROPS: Acreage, production, sales, and value, State of Hawaii, 1979-83 [1]

Year	Acreage harvested	Production	
		Quantity	Value [2]
	Acres	1,000 tons	1,000 dollars
1979.....	3,516	68.2	1,457
1980.....	4,702	74.1	1,691
1981.....	6,495	90.8	2,117
1982.....	8,705	35.4	1,376
1983.....	9,347	45.7	2,107

[1] Includes grains, grass and legume crops, and pineapple green chop.
[2] Includes value of production used on farm where produced.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1979-83

Kind of feed	Unit	1979	1980	1981	1982	1983
		Dollars				
Chick starter	Ton	220	245	275	262	279
Broiler grower	Ton	255	280	305	302	312
Laying feed	Ton	205	225	250	239	244
Dairy feed, 20-percent protein	Ton	188	215	240	236	245
Rolled barley	Ton	158	196	208	194	196
Rolled corn	Ton	166	193	211	195	217
Alfalfa cubes [1]	Ton	143	191	183	181	190
Pineapple bran	Ton	94	108	131	141	140
Cottonseed meal, 41-percent protein	100 pounds	15.00	14.60	16.30	16.20	17.60
Hog feed, 14-18 percent protein	100 pounds	10.00	12.50	13.60	13.80	15.80
Beef cattle feed, 10-20 percent protein	100 pounds	9.40	10.90	12.20	13.30	14.50
Stock salt	100 pounds	5.80	5.80	5.60	7.60	8.20

[1] Beginning in 1982 price is for Alfalfa Pellets.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1981-83

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Dollars per ton											
	CHICK STARTER											
1981..	280	280	280	280	280	280	275	275	270	265	265	265
1982..	265	265	265	265	270	265	265	260	260	255	250	260
1983..	260	260	265	275	275	275	275	280	295	295	295	295
	BROILER GROWER											
1981..	320	310	310	310	310	310	305	305	300	295	295	295
1982..	295	315	315	315	310	305	305	295	295	300	285	290
1983..	290	290	295	305	305	305	305	315	330	335	335	335
	LAYING FEED											
1981..	255	255	255	255	255	250	250	250	250	240	240	240
1982..	240	250	250	250	245	240	240	235	230	230	225	230
1983..	230	230	230	240	240	240	240	250	255	255	265	255
	DAIRY FEED, 20-PERCENT PROTEIN											
1981..	255	250	250	250	250	245	240	245	235	230	230	230
1982..	230	235	235	235	235	240	245	240	235	235	230	240
1983..	240	235	235	240	245	245	245	245	250	250	255	255
	ROLLED BARLEY											
1981..	225	215	215	215	220	220	205	205	197	194	194	193
1982..	192	200	199	198	205	205	203	197	185	179	180	182
1983..	186	190	190	192	200	203	190	190	197	204	202	204
	ROLLED CORN											
1981..	220	215	215	215	215	220	215	215	215	196	197	189
1982..	191	195	195	195	204	204	201	202	192	185	187	190
1983..	194	200	207	214	221	221	231	228	234	224	219	215
	ALFALFA PELLETS											
1981..	190	195	195	180	184	183	186	176	176	176	176	176
1982..	176	177	182	186	182	181	183	178	178	184	184	184
1983..	197	190	193	190	190	195	191	191	188	185	184	182
	PINEAPPLE BRAN											
1981..	112	112	123	131	131	131	132	137	135	142	142	142
1982..	142	142	142	142	142	142	140	140	140	140	140	140
1983..	140	140	140	140	140	140	140	140	140	140	140	140
	COTTONSEED MEAL, 41-PERCENT PROTEIN -- 100 pounds											
1981..	15.40	15.40	15.10	14.80	15.90	15.90	17.50	16.50	16.50	17.50	17.50	17.50
1982..	17.50	17.00	17.50	17.50	17.00	15.00	14.50	15.00	15.00	15.00	17.00	16.50
1983..	17.00	17.00	17.00	17.00	17.50	17.50	17.50	18.50	18.00	18.00	18.00	18.00

FEED: Inshipments from all sources, State of Hawaii, 1979-83

Commodity	1979	1980	1981	1982	1983
			Tons		
Feed Grains					
Barley	20,763	12,558	20,506	4,008	37,701
Corn	38,137	39,757	37,688	62,109	37,772
Mixed	[1]	[1]	[1]	[1]	37
Oats	208	236	186	186	1,342
Sorghum	10,733	180	2,454	168	211
Wheat	4,435	864	6,183	1,073	12,734
Total	74,276	53,595	67,017	67,544	89,797
Mixed Feeds					
Calf	511	453	366	317	371
Cattle	7,183	5,802	7,129	3,450	3,196
Dairy	12,419	12,133	9,497	10,270	10,305
Horse	1,828	1,458	1,347	1,018	1,245
Pigeon	717	698	537	496	516
Poultry (including scratch)	6,276	6,412	6,762	6,084	5,613
Rabbit	58	50	30	18	18
Swine	3,690	3,539	3,608	3,223	3,266
Other mixed	559	106	395	115	9
Total	33,241	30,651	29,671	24,991	24,539
Alfalfa Products					
Cubes, pellets, and hay	22,657	15,250	22,713	26,056	30,192
Protein Feeds					
Copra pellets	[2]624	[2]2,813	[2]1,883	[2]1,595	[2]1,969
Cottonseed products	10,854	11,549	14,401	12,778	9,355
Cottonseed, whole	2,197	4,738	4,362	5,472	6,009
Meat and bone meal	[3]3,067	[3]2,062	[3]1,516	[3]1,713	[3]1,399
Soybean meal	8,670	8,412	8,308	8,181	7,792
Other protein	277	39	103	167	0
Total	25,689	29,613	30,573	29,906	26,524
Other Feedstuff					
Almond hulls and pellets	2,144	2,418	3,123	4,891	4,944
Beet pulp and pellets	674	0	802	1,980	2,677
Cottonseed hulls and pellets	2,265	1,413	1,300	2,808	1,560
Grain screenings and pellets	2,044	6,694	13,234	2,818	2,939
Other mill feeds	11	48	0	0	188
Whey	59	76	92	68	106
Yeast	23	18	20	21	3
Miscellaneous/unspecified	205	1,936	3,465	6,763	9,526
Total	7,425	12,603	22,036	19,349	21,943
Total Feed Inshipments	163,288	141,712	172,010	167,846	192,995

[1] Previously included under Miscellaneous/unspecified.
[2] Foreign.
[3] Includes foreign.

Source: Market News Service, Hawaii Department of Agriculture.

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1979-83

Item	1979	1980	1981	1982	1983
			Dollars		
Building Materials:					
Framing lumber, 2" x 4", fir, standard and better, per 1,000 bd. ft.	590.00	615.00	570.00	530.00	584.00
Boards, per 1,000 bd. ft.:					
Rough, for farm fences and construction	760.00	795.00	750.00	745.00	800.00
Rough, redwood	NA	NA	1,075.00	1,080.00	1,160.00
Dressed, 1", pine, S4S, standard and better or No. 2 and better	620.00	730.00	730.00	725.00	780.00
Roofing:					
Asphalt shingles, 3 in 1 mineral surface, approximately 240 lbs., per square	44.00	54.00	54.00	52.00	53.00
Galvanized steel, 26 gauge, per 100 square feet	105.00	110.00	105.00	96.00	97.00
Plywood, exterior glue, ½", C-D-X, per 4' x 8' sheet	16.50	16.50	16.00	14.50	15.40
Concrete blocks, 8" x 8" x 16", per 100	105.00	115.00	122.00	127.00	126.00
Portland cement, per 94 lbs. net, each	6.10	7.80	8.70	9.40	9.30
Equipment and Supplies:					
Iron pipe, galvanized:					
1½" I. D., per foot	NA	NA	1.83	1.90	1.90
1¼" I. D., per foot	1.30	1.40	1.57	1.59	1.59
PVC pipe, per lin. foot:					
1", I. D.	NA	NA	.44	.47	.47
2", I. D.	NA	NA	.83	.86	.84
Barbed wire, galvanized, 12½-gauge, 4-point, per 80-rod spool	42.00	45.00	51.00	51.50	58.50
Stock fence (woven wire), 6" stay wire spacing, 12½-gauge wire, 32" high, per 20-rod roll	86.00	97.00	105.00	125.00	150.00
Steel post, line fence, each	3.75	4.00	4.25	4.95	4.50
Polypropylene shade cloth, per square foot:					
73%, 10' width	NA	NA	.17	.18	.18
78%, 20' width	NA	NA	.19	.21	.20
Hand sprayer, pressure, 3-4 gallon capacity, each	31.00	35.50	42.00	42.00	47.00
Knapsack, sprayer, pressure, stainless steel, 5 gallon, each	NA	NA	145.00	149.00	154.00
Rope, polypropylene, ½", per 100 feet	NA	19.00	22.00	21.00	20.00
Nails, 8d, common, per pound	.90	.96	1.05	1.20	1.13
Fertilizer Materials:					
Concentrated superphosphate, 44-46 percent P_2O_5, per ton	270.00	330.00	340.00	340.00	340.00
Sulphate of ammonia, per ton	175.00	195.00	230.00	238.00	225.00
Urea (45-46% N), per ton	235.00	295.00	310.00	330.00	335.00
Mixed Fertilizers:					
18-46-0, per ton	305.00	390.00	395.00	395.00	395.00

See footnote at end of table.

Continued

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1979-83 -- Continued

Item	1979	1980	1981	1982	1983
			Dollars		
Petroleum Products, Motor Supplies and Services:					
Gasoline, per gallon (including Federal, State, and local taxes):					
Price, service station (unleaded)	1.00	1.36	1.59	1.56	1.51
Price, bulk delivery (leaded, regular)	.80	1.13	1.31	1.26	1.19
Diesel fuel, per gallon	.67	1.02	1.21	1.18	1.21
Motor oil, per gallon:					
Regular (non-detergent)	2.40	2.60	3.75	3.55	4.05
Heavy duty (detergent)	2.60	2.80	3.85	3.80	4.40
All-weather (high detergent)	2.95	3.15	4.05	4.30	5.05
Auto tires (tubeless):					
Radial, steel-belted, size P195/75R14, ER78-14, each	79.00	83.00	86.00	83.00	82.00
Bias-belted, size E78-14, each [1]	54.00	61.00	63.00	56.00	59.00
Truck tires, each:					
7.00-15, 6-ply	63.00	74.00	77.00	76.00	81.00
Storage batteries, auto and light commercial 12 volt, cranking performance rating (CPR) (BCI STD):					
CPR 220-310 amps	48.50	57.00	58.00	58.00	62.00
CPR 315-500 amps	62.00	73.00	75.00	75.00	76.00

[1] Prior to 1981 G78-15.

FERTILIZER: Consumption by kind and primary nutrients, State of Hawaii, year ended June 30, 1979-83

Year	Mixtures	Direct application materials		Total	Primary nutrients		
		Primary nutrients	Secondary and micro-nutrients		N	Available P_2O_5	K_2O
	Tons						
1979...	119,866	58,783	2,456	181,105	26,173	25,789	28,224
1980...	108,590	58,527	2,291	169,409	23,126	19,246	20,901
1981...	102,546	46,863	728	150,137	18,907	13,629	21,963
1982...	100,797	54,627	1,015	156,439	22,086	11,010	24,134
1983...	95,856	40,114	869	136,839	18,533	11,869	19,557

FERTILIZER: Consumption chemical nitrogen materials, State of Hawaii, year ended June 30, 1979-83

Year	Ammonia		Ammonium		Nitrogen solution	Sodium nitrate	Urea	Other	Secondary and micro-nutrients
	Anhydrous	Aqua	Nitrate	Sulfate					
	Tons								
1979...	0	1,965	713	1,549	0	24	20,757	53	2,456
1980...	0	11,889	0	1,197	20,533	9	8,379	73	2,069
1981...	0	2,413	0	1,231	10,115	3	3,618	104	728
1982...	0	382	0	785	18,279	0	4,035	1,952	1,015
1983...	0	1,401	0	776	11,086	3	3,685	104	869

FERTILIZER: Consumption phosphate and potash materials, State of Hawaii, year ended June 30, 1979-83

Year	Phosphate					Potash		Natural organics
	Superphosphates		Phosphate rock [1]	Ammonium phosphates	Other	Chlorides 50% - 62%	Other	
	22% and under	Over 22%						
	Tons							
1979...	0	5,416	1,041	1,024	6,657	18,223	1,361	0
1980...	0	3,334	1,303	165	6,470	2,714	14,742	0
1981...	0	4,419	327	0	7,789	1,153	15,691	0
1982...	0	614	188	33	9,901	2,931	15,527	0
1983...	0	2,107	88	0	7,325	698	12,841	0

[1] Includes colloidal phosphate.

AGRICULTURAL EMPLOYMENT: Workers on farms, State of Hawaii, annual averages, 1979-83 [1]

Year	Total farm employment			Hired workers by type of farm		
	Self employed farm operators	Unpaid family members	Hired workers	Sugar	Pineapple	Other
1979..	3,020	1,520	10,800	4,950	2,520	3,300
1980..	3,400	1,100	10,550	4,840	2,510	3,200
1981..	3,100	900	10,500	4,875	1,975	3,650
1982..	2,600	1,300	13,000	4,900	3,750	4,350
1983..	2,500	1,500	13,000	4,850	3,250	4,600

[1] Quarterly survey discontinued May 1981. Averages for 1981 are only for January and April quarters and therefore not comparable with previous years. Data for 1982 is based on annual survey for week of July 11-17.

AGRICULTURAL EMPLOYMENT: Total workers on farms, State of Hawaii

Island	July 1982, week of 11-17			July 1983, week of 10-16		
	Self-employed farm operators	Unpaid family members [1]	Hired workers	Self-employed farm operators	Unpaid family members [1]	Hired workers
Hawaii	1,700	800	3,950	1,600	1,000	4,050
Kauai	100	100	1,500	100	100	1,450
Maui/Molokai/Lanai	300	100	4,400	300	100	4,250
Oahu	500	300	3,125	500	300	2,950
State[2]	2,600	1,300	13,000	2,500	1,500	13,000

[1] Includes family members working 15 or more hours per week.
[2] Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Hired workers by type of farm, State of Hawaii

Island	July 1982, week of 11-17			July 1983, week of 10-16		
	Sugar	Pineapple	Other	Sugar	Pineapple	Other
Hawaii	1,550	--	2,400	1,500	--	2,550
Kauai	1,350	--	150	1,300	--	150
Maui/Molokai/Lanai	1,200	2,500	700	1,300	2,200	750
Oahu	800	1,225	1,100	750	1,050	1,150
State [1]	4,900	3,750	4,350	4,850	3,250	4,600

[1] Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Wage rates, State of Hawaii [1]

Type of work performed	July 11-17, 1982	July 10-16, 1983
	Dollars per hour	
Field workers	5.88	5.84
Livestock workers	5.85	5.85
Supervisors	9.59	9.81
Others	7.66	7.60

[1] Perquisites such as room and board, housing, etc., are provided some workers in all categories in addition to wage rates shown.

DEFINITION OF TERMS

Agriculture: All operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally shipper's dock.

Farm: A place with estimated (or expected) annual sales of agricultural products of at least $1,000.

Livestock operation: A place that has one or more head of the species on hand at any time during the year. Does not have to meet farm definition.

Crop production: Estimated production is the amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

Livestock production: Estimated amount of livestock and livestock products sold. Includes allowance for amount used on farms where produced.

Farm price: A computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for definition of pricing point.

Market supply: Includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded) plus products shipped in for civilian use. Direct inshipments to the Armed Forces are excluded.

SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Reporting Service uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Crop Reporting Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Reporting Service conducts many of its surveys by virtually complete **ENUMERATION** of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership. Vegetable and poultry surveys are among those where complete enumeration is the usual procedure.

LIST SAMPLING is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle and hog surveys are examples of stratified list sample designs.

AREA FRAME SAMPLING can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

MULTIPLE-FRAME SAMPLING is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error. This survey method is currently used for agricultural employment and wage rate surveys.

OBJECTIVE YIELD SURVEYS provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields. Currently, this method is used for forecasting papaya yield four months in advance of harvest. Research is underway to determine the feasibility of using this methodology on other crops.

CHECK DATA is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, public tax records, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market News Service, are an important check data source. Also, grower organizations, such as the Hawaiian Sugar Planters' Association, provide an efficient means of obtaining information concerning sugar production.

Hawaii Agricultural Reporting Service

REPORTS ISSUED

Report	Frequency
CROP RELEASES	
Avocados	Annually
Bananas - Production & Price	Monthly
Bananas - Acreage	Annually
Coffee	Semi-annually
Fresh Fruit	Annually
Processed Fruit	Annually
Ginger Root	Annually
Guavas	Annually
Macadamia Nuts	Semi-annually
Papayas - Acreage, Production & Price	Monthly
Sugar - Acreage & Production	Aug.-Dec.
Taro	Annually
Vegetables - Acreage, Production & Price	Monthly
Vegetables	Annually
Vegetables Processed - Quantity & Price	Annually
Vegetables - Expected Honolulu Vegetable Supply	Weekly
FLOWERS AND NURSERY PRODUCTS	
Anthuriums - Exports	Monthly
Dendrobium Orchids	Annually
Flowers and Nursery Products	Annually
Out-of-State Sales	Annually
Poinsettias	Semi-annually
Protea - Plant Inventory	Periodically
LIVESTOCK RELEASES	
Cattle - Jan. 1, Inventory & Calf Crop	Annually
Cattle - Slaughter and Pasture Condition	Monthly
Chickens & Eggs	Monthly
Hogs - Dec. 1, Inventory & Pig Crop	Annually
Hogs - Slaughter	Monthly
Honey	Annually
Milk - Production, Cow Numbers & Prices	Monthly
WEEKLY CROP WEATHER	Weekly
OTHER PUBLICATIONS	
Agricultural Labor & Wage Rates	Annually
Fertilizer Use	Annually
Prices Paid - Feed	Monthly
STATISTICS OF HAWAIIAN AGRICULTURE	Annually

The above reports may be obtained by contacting the Hawaii Agricultural Reporting Service, P. O. Box 22159, Honolulu, HI 96822 (Office - 1428 S. King St., Honolulu, HI).

EXPLANATION OF GRAPHS AND TABLES ON PAGES 77 AND 83

BEEF-VEAL SUPPLY: Historical beef-veal supply data consists of all Hawaii production, carcass weight basis, foreign imports, converted to carcass weight equivalent and mainland inshipments, weight-as-shipped. Foreign and mainland inshipments of processed beef are excluded. Also, no adjustment is made for changes in inventory. Estimated supplies are derived as a function of U. S. per capita consumption of beef and veal, and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1970 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable with which the supply equation was estimated. The resulting equation indicated Hawaii beef supply with a correlation coefficient of .98.

PORK SUPPLY: All historical and estimated pork supply data involved dressed weight of pork with the exception of mainland inshipments which, at times, includes live hogs shipped into Hawaii for slaughter. Foreign and mainland inshipments of processed pork are excluded. Estimated supplies are derived as a function of U. S. per capita consumption of pork and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable in estimating a market supply equation. The resulting equation indicated Hawaii pork supply with a correlation coefficient of .90.

CHICKEN-BROILER SUPPLY: All historical chicken-broiler poundage data, as well as estimated supplies, are expressed on a ready-to-cook basis. Estimated supplies are derived as a function of U. S. per capita consumption and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on U. S. mainland inshipments and Hawaii production was totaled to serve as the dependent variable in estimating the supply equation. The resulting equation indicated Hawaii chicken-broiler supply with a correlation coefficient of .99.

Revisions to prior years are made when final figures on population and per capita consumption are available.

PHOTOGRAPHY CREDITS

Cover photo: Parker Ranch, Waimea, Hawaii, by Camera Hawaii, Inc.

General summary: Cattle grazing on the Island of Hawaii, courtesy of Soil Conservation Service, page 2.

Crop summary: AGRETECH, Inc. Potted Foliage Operation, Ewa, Oahu, page 14.

Livestock summary: Milk cows on the Toledo-Twin Pine Dairy, Waianae, Oahu, page 67.

Livestock feature: Branding time at South Point on the Island of Hawaii, courtesy of Paul W. Gebauer, page 68.

Milking Parlor at Toledo-Twin Pine Dairy, Waianae, Oahu, page 69.

Egg gathering on Mikilua Poultry Farm, Inc., Waianae, Oahu, page 69.

Farrowing pen at Hokama Farm, Inc., Waianae, Oahu, page 69.